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A USER'S GUIDE TO THE SOCIOECONOMIC ENVIRONMENTAL  
DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS)(U) CALIFORNIA  
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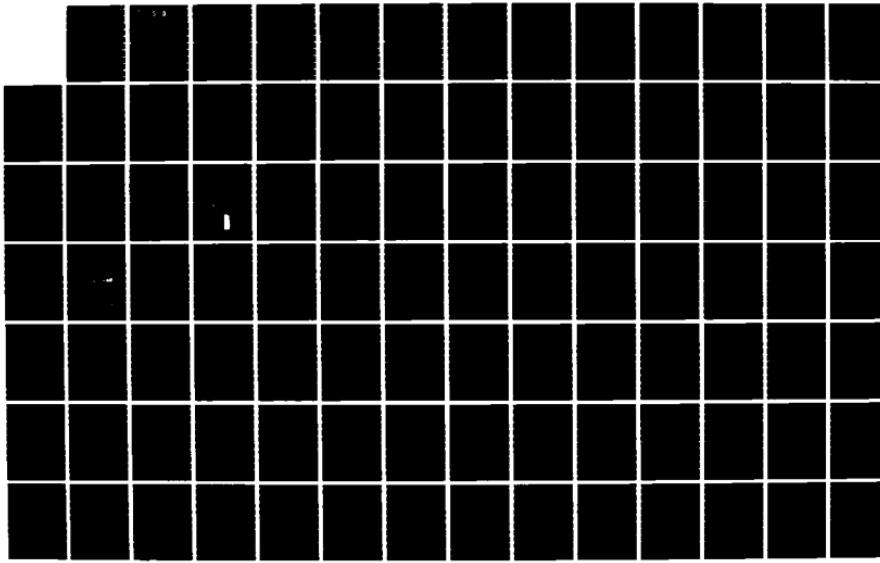
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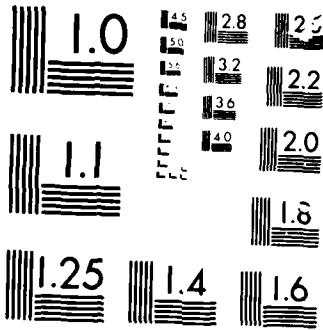
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US Army Corps  
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# **A User's Guide to the Socioeconomic Environmental Demographic Information System (SEEDIS)**

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IWR User's Manual 86-UM-1

January 1986

## UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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20 ABSTRACT (Continue on reverse side if necessary and identify by block number) This manual provides information on accessing the SEEDIS Database. Procedures for specifying geographic areas and identifying, selecting and displaying socioeconomic data are described. Special features of the system allowing interface with microcomputers are presented.		

A USER'S GUIDE TO THE SOCIOECONOMIC  
ENVIRONMENTAL DEMOGRAPHIC INFORMATION SYSTEM  
(SEEDIS)

by

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## FOREWORD

Since 1973 the Corps of Engineers has funded the development of a computerized data base to provide Corps planners with access to socioeconomic data. Originally designated as SIRAP (for System of Information Retrieval and Analysis for Planners), the data base became integrated into a larger data base system designated as SEEDIS (for Socio Economic Environmental Demographic Information System). SEEDIS has been developed at the Lawrence Berkeley Laboratory of the University of California with funds provided by the Departments of Labor and Energy and the Corps of Engineers. Since 1978 the Institute for Water Resources (IWR) has managed the continued development of SEEDIS for the Corps of Engineers. Under IWR management the system has evolved from a batch oriented system to an interactive on-line information retrieval system where users in FOAs can directly retrieve information from the computer and can download the information in forms usable by microcomputer spreadsheet and statistical analysis programs.

Currently SEEDIS provides the following features:

Data access and retrieval of more than 50,000 items for each county.

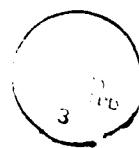
Data access and retrieval of 1000 census items for each subcounty area (census tract or enumeration district/block group)

Facilities to create graphic displays, including bar charts, pie graphs and thematic maps.

Facilities for downloading of data files to micro computers in formats readable by spreadsheet and statistical analysis programs.

This manual is designed to provide an introduction to SEEDIS for Corps users. It provides information which can enable first time users to successfully obtain data they need. The manual also provides details on accessing and using more advanced features of the data base.

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## Introduction

This document is intended to be an introduction to SEEDIS for those users who have never been exposed to a data retrieval or storage program. It explains many of the capabilities of SEEDIS, in particular those tasks which the new user will need to get started. The aims of this document are to help a new user to run SEEDIS successfully on his or her first attempt, to serve as a reference for the infrequent user of SEEDIS, and to motivate further self-education in the more advanced features of SEEDIS.

## What is SEEDIS?

SEEDIS, the Lawrence Berkeley Laboratory's Socio-Economic Environmental-Demographic Information system, is an integrated information system for retrieving, analyzing, and displaying selected portions of large data bases. These include a wide variety of geographically linked data on the United States' population, economy, agriculture, employment, mortality, air quality, and energy production and use.

For Corps of Engineers' planners, SEEDIS is primarily useful for obtaining demographic and socioeconomic data for economic base studies, social profiles and other plan formulation and evaluation tasks. Using SEEDIS Corps' analysts can:

- Access and retrieve over 50,000 pieces of information at county levels of detail and over 1,000 pieces of data for sub-county levels of geography, including Minor Civil Divisions, Census Tracts, and Enumeration District-Block Groups.
- Transform SEEDIS data into formats useable by statistical analysis programs (SPSS and SAS) as well as by popular microcomputer spreadsheet programs (e.g. LOTUS 1-2-3),
- Download SEEDIS files or transformed files to microcomputers using communications software.

## How This Manual is Organized

The various sections of this manual guide a SEEDIS user on a step-by-step tour through the elements of SEEDIS. This journey is illustrated by example screens, each of which builds upon previous ones. The examples focus on a three county geographic area (the Topeka Kansas SMSA) and on data from the 1947-1977 County Data Book and 1980 Census summary tape files. In all of the following examples, requests typed by the user are shown in **boldface** while responses or messages typed by the SEEDIS system remain in pale face.

The first 26 pages of the manual constitute a novice user's introduction to SEEDIS and are hence sectioned **BEGINNING SEEDIS** in the table of contents, while the remainder of the manual takes the user into more depth on aspects of SEEDIS and may be rightfully called **INTERMEDIATE SEEDIS**.

## Logging on to the VAX 11/780 Computer

After connecting the terminal to the computer, either by phone lines or through a terminal already directly connected to the computer, do the following:

1. Hit the carriage return key one or more times
2. This will elicit the request for your name and password.

There may or may not be a 'message of the day' printed at this point. These messages describe possible events to occur during the day (times when the machine will be down, or available on a limited basis), or announce system changes or additions. Following the message you will be given the system prompt, **\$**. This is your cue that the machine is now ready to receive input from your terminal. You can start SEEDIS by typing **seedis**.

---

<b>user types name and password</b>	<pre>LBH - CSR VMS Network VAX  Username: ARMYCORPS Password: Welcome to LBH - CSR VMS V4.2 VAX 11/780  Last interactive login on Wednesday, 4-DEC-1985 12:51 Last non-interactive login on Wednesday, 26-NOV-1985 13:18     1 failure since last successful login ***** System Shutdown: None scheduled ----- VMS V4.2 apparently has some problems with its math library, particularly concerning exponential routines. It is suggested that you compile your programs with the "check=al" switch to receive error notification at run-time. The problems seem to most often manifest themselves as floating point underflow errors. (12/3) *****</pre>
<b>disk usage</b>	<pre>Disk usage for [212,027] 11739 used &lt; 20000 max min You have Software Tools installed - use 'msg' to read 9/25/85 1982 Census of Agriculture ----- A new database (code CZ) has been installed in SEEDIS. It provides the 1982 U.S. Census of Agriculture with many comparable items from the 1978 agricultural census. Over 3,500 items are available for each STATE and COUNTY in the U.S. It requires the mounting of the disk pack CENSAGR001. There are some known spelling errors in the data dictionary which will be corrected soon.  9/10/85 1983 County &amp; City Data Book ----- The 1983 County and City Data Book has been installed in SEEDIS. The county portion is database code CX, currently available at COUNTY00 level of geography, and includes information from the 1978 Census of Agriculture and the 1977 Business and Government censuses. The city portion (for cities with population greater than 25,000) has different data and hence is given a different data base code CY. It is available at the PLACE80 level of geography. For further information on either database, contact Fred Gey (FIS 451-6208) or Esther Schroeder (FIS 451-5306)  If you have questions or problems using SEEDIS or want to obtain printed output, please call Ilona Etnowski or Ann Gerken at (415) 642-6571 or (FIS) 415-642-6571. What's your last name? gey Thank you gey \$ seedis</pre>
<b>requests SEEDIS</b>	

---

## Correcting Typing Errors

In addition to their obvious functions, several keys on your keyboard can be given special meaning by the simultaneous use of the CONTROL (CTRL) or SHIFT keys. These keys are:

### (shift)RUB

[DEL on a Texas Instruments terminal]  
[RUB on a Textronix 4014 graphics terminal]

Using this key will erase characters from the line, one character at a time.

### CTRL-u

Using this key will cause the entire line being typed to be deleted.

### CTRL-r

This key will cause the line you are typing to be retyped at your terminal. Useful when working on a paper terminal and several corrections have been made, possibly making the line unreadable.

This key is used BEFORE the carriage return key has been hit.

### CTRL-s

This key will temporarily halt the printing of information at your terminal. Particularly useful when using a screen terminal. The printing will remain halted until you use the CTRL-q key.

### CTRL-q

This key will cause the printing halted by the CTRL-s key to resume. You may use the CTRL-s and q keys as many times as needed to look at a file.

### CTRL-o

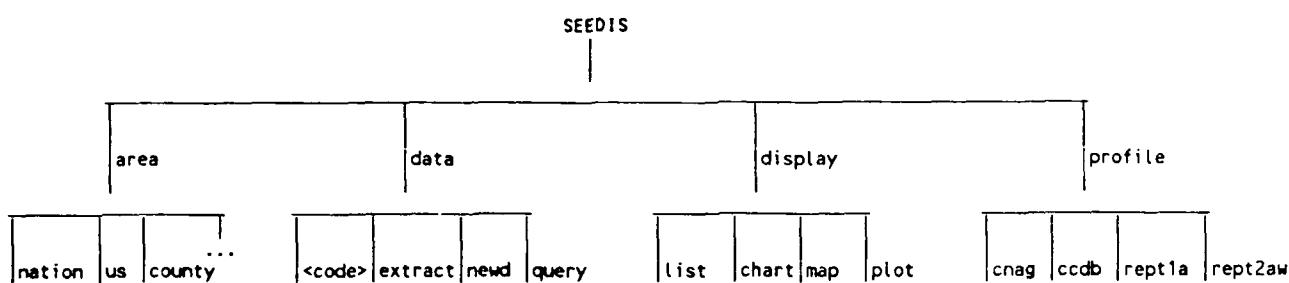
This key will terminate the printing of a file on your terminal.

CTRL-o suspends the printing of your file at the terminal while processing continues. If it is a very long file you can press CTRL-o again and the display will resume from the current point of processing.

## The Structure of SEEDIS

SEEDIS operates as a hierarchy of menu options. If any particular option is chosen, it will present another sub-menu of options. Each menu can be finished with the response *quit*.

The four main options (called *modules*) which are presented when SEEDIS is accessed are *area*, *data*, *display*, and *profile*.



The *area* module defines the chosen geographic area of interest. It MUST be accessed and entered before any other module in SEEDIS (unless the area has been defined on a previous SEEDIS run, in which case the user can proceed directly to other options).

The *data* module is used to choose data items and to retrieve them for the particular geographic areas of interest. Within the *data* module there are also other powerful modules for manipulating SEEDIS data files, such as *newdata* (for adding personal data to SEEDIS working data files), and *query* (for selecting subsets of data and computing derived values).

The *display* module offers several ways to display the retrieved data in meaningful ways.

Finally, the *profile* module offers consolidated summaries of area characteristics.

The usual method of operating SEEDIS is to invoke *area*, *data*, *display* in that order, one after another. For beginners, the preferred method is to select *profile* after defining an *area*.

## Accessing SEEDIS

Once you get the system prompt, "\$", you simply type the word "seedis" followed by a carriage return (CR).

### Example 1: Accessing the SEEDIS System

user requests SEEDIS	<b>\$ seedis</b> <hr/> WELCOME TO SEEDIS, VERSION 1.4	
	At any point in Seedis, you can type the following global commands to get these services.	
	Input	Description
	?	list and describe commands in this menu
	help	describe the purpose of this menu's commands
	show	list and explain items to be selected
	review	list current session status and history
	cancel	delete current selections (depends upon context)
	quit	return to previous menu
	*<comment>	enter a comment in Seedis log
	control-T	check process (CPU = time in central processing unit)
	control-Y	abort process, return to operating system
	Please stand by. Your menu prompt will be here shortly.	
question mark shows menu options	<b>SEEDIS: area, data, display, profile</b> <hr/> Description	
	?	
	area	select new geographic area (level and scope)
	data	select, extract, enter or transform data
	display	display data in tables, charts, or maps
	profile	produce 1940-1977 County Data Book report
	?	list available commands in this menu
	help	describe how to use Seedis
	show	list Seedis databases
	review	list current session status and history
	cancel	delete files that Seedis created
	quit	leave Seedis and return to operating system
	*<comment>	enter a comment in Seedis log

As shown above, SEEDIS offers several "global" commands which enable the user to obtain help and keep track of where he/she is in the SEEDIS session. These commands are:

Command	Description
?	list currently available commands
help	describe SEEDIS usage in greater detail
show	show extended lists of choices
review	review current session status & history
cancel	cancel current options and restart
quit	leave current place and return

The commands *help*, *show*, *review*, and *cancel* are context-dependent, that is they operate slightly differently depending where you are in the SEEDIS system. For example, *HELP* will always give information relating to where you are in the usage of the system. On the other hand, successive use of *quit* will always enable you to gracefully exit SEEDIS.

Suppose you are performing a flood control study in the Topeka, Kansas metropolitan area. You are preparing an economic base report and social profile for the study. These reports will focus on the SMSA as a whole, and also on selected census tracts which are adjacent to the Kansas River which runs through the northern part of the city of Topeka. The remainder of the User's Manual will illustrate how information for these reports for the counties comprising the SMSA is obtained. This is followed by a final chapter on obtaining data on cities and towns below the county level of detail. Appendix B of the Manual provides additional detail as well as examples of retrieving census tract data.

### Selecting a Study Area

To select a study area, you first invoke the AREA command. Then you will be asked to select a level of geography. Finally, you will be prompted for your particular area. The following example selects three counties in the State of Kansas which make up the Topeka Standard Metropolitan Statistical area.

#### Example 2: A Three-county Study Area

user chooses area	<pre>         SEEDIS: area, data, display, profile          area         AREA. nation, state, county, county80, &lt;other level&gt;         : county         AREA. &lt;state&gt;, us, us+, fr&lt;nn&gt;         : kansas         State is KANSAS          AREA. &lt;county(s)&gt;, all         : jeffer,osage,shawnee         AREA. &lt;county(s)&gt;, all         : review         Areas Selected         -----         KANSAS         JEFFERSON         OSAGE         SHAWNEE          AREA. &lt;county(s)&gt;, all         : quit         AREA. &lt;state&gt;, us, us+, fr&lt;nn&gt;         : quit       </pre>
-------------------	---

#### Things to note about AREA selection

1. Area selection is done by common name, not by entering obscure codes.
2. More than one area can be selected on a single line, separated by commas. The input line "all" will select all possible areas (all counties within a state, all states in the U.S., etc.).
3. The full area name need not be spelled out; the first few unique characters will suffice.
4. The REVIEW command shows what has been selected.
5. Successive QUIT commands will save area selection and return to the SEEDIS monitor menu.
6. The CANCEL command eliminates all area selection and starts over.

## Profile Reports of the Study Area

A general overview of the study area may be obtained by invoking the PROFILE module, which has currently four packaged profiles, *ccdb* (1947-1977 county data book), *cnag* (1974 Census of Agriculture), *rept1a* (1980 Census Summary Tape File 1 100% population count), and *rept2aw* (1980 Census Summary Tape File 3 20% sample including income and employment).

user chooses profile option	profile	SEEDIS area, data, display, profile
	?	PROFILE: ccdb, cnag, rept1a, rept2aw
	Input	Description
	CCDB	County Data Book (1940-1977)
	CNAG	1974 & 1969 Census of Agriculture
	REPT1A	1980 Census Summary Tape File 1 80 column pages
	REPT2AW	1980 Census STF3 (:income, employment) 132 column page
	?	list available commands in this menu
	help	describe writing of profiles
	show	[no effect]
	review	list current session status and history
	cancel	return to main SEEDIS menu
	quit	return to main SEEDIS menu
	*<comment>	enter a comment in SEEDIS log
chooses CNAG profile	cnag	PROFILE: ccdb, cnag, rept1a, rept2aw
	type	PROFILE: page, type, print

The type command types the profile to your terminal	type	PROFILE: page, type, print
		SEEDIS Run on 1 Dec 1983 JEFFERSON County, KAN Lawrence Berkeley Laboratory 1974 and 1969 U. S. Census of Agriculture
		In 1974 this area contained 1,078 farms. The total land area in farms was 273,793 acres, which comprised 83.9 percent of the total land area. The average farm size was 254 acres, and the average value of land and buildings per farm was \$104,126.

The following table summarizes crop production for this area.

Crop	Units	Crop Production	
		1969	Amount Harvested
Corn used for grain	bu	2,247,837	1,214,839
Sorghums for grain or seed	bu	1,248,453	919,649
Wheat for grains	bu	372,107	431,010
Soybeans Used for Beans	bu	223,096	475,473
Oats	bu	44,077	68,438
Berley	bu	250	5,550
Rye	bu	930	100
Irish potatoes	100w	732	306
Hay	tons	50,904	41,084
Corn for silage/green chop	tons	33,711	41,106
Grain	bu	-	-
Pearl millet for grain	pounds	-	-
Locust	pounds	-	-

SEEDIS Run on 1 Dec 1983  
 Lawrence Berkeley Laboratory 1974 and 1969 U. S. Census of Agriculture

In 1974 this area contained 1,023 farms. The total land area in farms was 386,896 acres, which comprised 85.5 percent of the total land area. The average farm size was 378 acres, and the average value of land and buildings per farm was \$118,130.

The following table summarizes crop production for this area.

Crop Production

Crop	Units	Amount Harvested	
		1969	1974
Corn used for grain	bu	620,785	185,310
Sorghums for grain or seed	bu	2,942,819	1,644,343
Wheat for grains	bu	489,613	683,868
Soybeans Used for Beans	bu	614,916	650,889
Oats	bu	29,670	58,283
Barley	bu	5,554	975
Rye	bu	-	-
Irish potatoes	100wt	303	97
Hay	tons	49,696	45,756
Corn for silage/green chop	tons	38,857	40,824
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

SEEDIS Run on 1 Dec 1983  
 Lawrence Berkeley Laboratory 1974 and 1969 U. S. Census of Agriculture

In 1974 this area contained 981 farms. The total land area in farms was 244,947 acres, which comprised 69.9 percent of the total land area. The average farm size was 250 acres, and the average value of land and buildings per farm was \$109,495.

The following table summarizes crop production for this area.

Crop Production

Crop	Units	Amount Harvested	
		1969	1974
Corn used for grain	bu	2,026,902	1,372,312
Sorghums for grain or seed	bu	1,287,517	837,089
Wheat for grains	bu	843,270	668,423
Soybeans Used for Beans	bu	133,469	168,456
Oats	bu	43,290	23,981
Barley	bu	380	-
Rye	bu	-	-
Irish potatoes	100wt	3,122	11,125
Hay	tons	47,697	43,882
Corn for silage/green chop	tons	21,778	23,732
Cotton	bales	-	-
Peanuts for nuts	pounds	-	-
Tobacco	pounds	-	-

PROFILE: page, type, print

: quit

PROFILE: ccdb, cnag, reptia, rept2aw

User selects the 'ccdb' profile  'page' prints the profile by screenfuls	ccdb	PROFILE: ccdb, cnag, rept1a, rept2aw					
	page	PROFILE: page, type, print					
1977 CITY COUNTY DATA BOOK FAMILIES, INCOME AND HOUSING PROFILE KS JEFFERSON							
FAMILY, INCOME							
		1950	1960	1970			
Number of Families		3,080	3,011	3,197			
Percent Low Income 1/		50.4%	33.7%	14.4%			
Median Family Income (\$)		1,983	4,287	8,346			
PUBLIC ASSISTANCE RECIPIENTS							
		1972	1976				
AFDC		89	270				
AFDC children			182				
Average Monthly Payments/Fam (\$)		165	246				
SSI							
Total			145				
Aged			84				
Payments Total/Mo. (\$000)			[2]				
HOUSING							
		1940	1950	1960			
Total Housing Units	4,027	3,839	3,862	4,055			
Percent built since last census		5.7%	12.6%	24.8%			
Occupied units	3,748	3,530	3,473	3,771			
Owner occupied	52.2%	69.6%	76.0%	79.6%			
Median/Mean occupants		2.7nd	3.2nd	3.1nd			
Median value owner-occupied (\$)			5,800	11,397			
Median rent (\$)			60	87			
mobility (% moved into in last 5 years)				45.0%			
CONSTRUCTION (1975-1976)							
New private units authorized		164					
% single units		96.3					
% 5+ units		0.0					
Total permit value (\$000)		4,145					
Average per unit (\$/unit)		25,274					

1/ Low income defined as under \$2000 for 1950 and as under \$3000 for 1960 and 1970  
[n] denotes a suppression flag of value n

1		1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS JEFFERSON				
		1954	1958	1963	1967	1972
[Press SPACE for more]						
Manufacturing						
establishments		6	11	11	12	13
payroll (\$000)		408	401	257	300	[2]
value add (\$000)		438	860	510	800	[2]
new cap exp (\$000)		28	0	16	100	[2]
employees		118	99	66	100	[2]
production workers		87	75	51	0	[2]
Retail Trade						
establishments		138	134	126	109	145
sales (\$000)		7,884	8,097	8,788	9,549	12,290
payroll (\$000)		545	559	678	760	794
employees		283	261	237	228	263
Selected Services						
[Press SPACE for more]						
establishments		44	49	53	71	79
receipts (\$000)		222	422	435	587	1,214
payroll (\$000)		24	36	48	84	182
employees		18	21	23	28	58
Wholesale Trade						
establishments		17	18	10	7	17
sales (\$000)		0	2,295	2,291	2,797	8,200
payroll (\$000)		0	131	68	103	438
employees		0	32	19	20	66
Mineral Industries						
establishments			2	2	4	1
payroll (\$000)			0	0	[1]	[1]
ship val (\$000)		0	0	0	[1]	[1]
[Press SPACE for more]				0		[1]
value add (\$000)					0	
cap exp (\$000)						
employees			0	0	[1]	[1]

[n] denotes a suppression flag of value n

	<p>1</p> <p>1977 CITY COUNTY DATA BOOK FAMILIES, INCOME AND HOUSING PROFILE KS OSAGE</p> <p>FAMILY, INCOME</p> <table> <thead> <tr> <th></th><th>1950</th><th>1960</th><th>1970</th></tr> </thead> <tbody> <tr> <td>Number of Families</td><td>3,525</td><td>3,549</td><td>3,630</td></tr> <tr> <td>Percent Low Income 1/</td><td>46.5%</td><td>37.5%</td><td>15.7%</td></tr> <tr> <td>Median Family Income (\$)</td><td>2,104</td><td>3,939</td><td>7,553</td></tr> </tbody> </table> <p>[Press SPACE for more] <b>q</b></p> <p>The following suppression flags may be encountered in the PROFILES where data is taken from the 1977 CITY COUNTY DATA BOOK. The suppression flags are:</p> <ul style="list-style-type: none"> <li>[1] no data - not available</li> <li>[2] no data - suppression for confidentiality purposes</li> <li>[3] no data - not applicable</li> <li>[6] no data - geographic unit not incorporated at the time to which this item refers</li> <li>[7] no data - data omitted for negro or spanish heritage populations less than 400</li> </ul> <p>PROFILE: page, type, print</p> <p>: quit</p>		1950	1960	1970	Number of Families	3,525	3,549	3,630	Percent Low Income 1/	46.5%	37.5%	15.7%	Median Family Income (\$)	2,104	3,939	7,553
	1950	1960	1970														
Number of Families	3,525	3,549	3,630														
Percent Low Income 1/	46.5%	37.5%	15.7%														
Median Family Income (\$)	2,104	3,939	7,553														

### Selecting the Report 1A Profile

After displaying his CCDB profile, the user only has to select the **rept1a** option within PROFILE to automatically obtain the Report 1A profile (1980 Census Summary Tape File 1) for the same areas.

user selects the rept1a profile	: quit	PROFILE: page, type, print
	: rept1a	PROFILE: ccdb, cnag, rept1a, rept2aw
	: page	PROFILE: page, type, print

The "print" option shown above will print out the profile on the computer's line printer (usually at LBL). Call LBL if you have used this command and wish to have printouts mailed to you. This option is especially useful if the printout is too voluminous for your terminal (the CCDB profile for Texas counties will generate 497 pages of output).

1980 Census STF1	Report 1A. Population and Housing Part I			
SEEDIS Run on 1 Dec 1983	Jefferson County			
Lawrence Berkeley Laboratory				
Population by Race, Origin, Marital Status				
Universe: Persons	Number	Percent		
Population by Race, including Hispanics	15,207	100.0		
White	14,949	98.8		
Black	51	0.3		
Native American	110	0.7		
American Indian	110	0.7		
Eskimo	-	-		
Aleut	-	-		
Asian and Pacific Islander (4)	21	0.1		
Japanese	4	-		
Chinese	1	-		
Filipino	1	-		
Korean	3	-		
Asian Indian	1	-		
[Press SPACE for more] <b>q</b>				
PROFILE: page, type, print				
: quit				

### Selecting the Report 2A Profile

After displaying his Report 2A profile, the user can then select the **rept2aw** option within PROFILE to obtain the Report 2A profile (1980 Census Summary Tape File 3) for the same areas.

user selects the <b>rept2aw</b> profile	PROFILE: page, type, print				
	: quit				
	: <b>rept2aw</b>				
	PROFILE: page, type, print				
	: <b>page</b>				
	U.S. Department of Labor Employment and Training Admin. 1980 Census, Run on 1 Dec 1983 Lawrence Berkeley Laboratory				
	Report 2A: Employment and Training Ind Table: Population, Labor Force, and In				
	Population	Labor Force, Industry and Occ			
	Universe: Persons (50)	Number	Pct	Universe	Employ
	Population by Race, incl Hisp	15,207	100.0	Persons 18 Years and Over	Employ
	White	14,949	98.3	Total, incl Hisp	6,64
	Black	58	0.4	White	6,55
	Native American	144	0.9	Black	2
	Asian and Pacific Isl (4)	31	0.2	Native American	3
	Remaining Races (a)	25	0.2	Asian/Pac Isl (4)	..
	Hispanic, all races	106	0.7	Remaining Race(a)	..

[The complete profiles for this example appear below in Appendix A]

## Data Selection of Individual Data Items

In addition to obtaining area profile reports, users can select and retrieve individual data elements for a study area by using the DATA selection module. SEEDIS contains a number of large data bases (currently 30 different data bases with over 11,000 elements for each county are available). This section describes how to retrieve individual SEEDIS data items.

Each data base in SEEDIS has associated with it unique letter codes and a catalogue of data items which it contains. In order to see the data bases available for the level of geography previously selected, type "show." To browse through a particular catalog and select specific data elements from the associated data base, type the code for that data base, as shown below for the County Data Book Time Series data base:

### Example 4: Selecting the County Data Book Catalogue

		SEEDIS: area, data, display, profile		
		DATA: <database code>, extract, newdata, query, mode		
		DATABASE CODES FOR COUNTY LEVEL		
Code	Database Title	Scope	Vars	Access
AF	1970-77 Population by Age/Sex/Race	US	608	offline
AM	Areas, Centroids, and Boundaries	US+	35	local
AP	1980 Census Population (prelim)	CA	3	local
BJ	Pop, labor force, migr, fertility	US	463	local
BX	1980 Population by Race	US	11	local
CJ	1950-80 Population by Age/Sex/Race	US	306	local
O	1970-75 Population by Age/Sex/Race	US	432	local
R	Revised 1970 Pop'n by Age/Sex/Race	US	138	local
T	1970 Pop by Age/Sex/Race/Mar Stat	US	216	local
B	Biomass Resources, 1976 and 2025	CA	55	local
D	1970 Residential Housing & Heating	CA	233	offline
E	1980-95 Elec Generating Capacity	US	18	local
A	Extract, Pop at Risk to Air Poll	CA	25	local
L	1974-1976 Air Quality (complete)	US+	257	local
M	1974-1976 Air Quality (summary)	US+	30	offline
Z	1974-1976 Air Qual: county vs PUS	US+	30	local
BA	1969-77 Annual Leukemia Mortality	US	860	offline
BZ	1973-77 SEER cancer incid by hist	SEFR1	308	local
CT	1973-81 SEER cancer incidences	SEFR3	95040	offline
CE	1968-72 Age Spec Mortality, Whites	US	76	offline
CK	1968-78 Annual age spec mortality	US	17986896	offline
P	1968-1972 Age Adjusted Mortality	US	862	local
V	1977 Area Resource File	US	889	local
X	Cancer Mortality, 1950-1980	US	424	local
AJ	1971-1978 Employment by Industry	US	284	offline
CA	1980 Census, Summary Tape File 1	US	342	local
CF	1980 Census, Summary Tape File 3	US	1153	local
CI	1963 Employment by Industry	US	391	offline
CR	1940-70 Employment by Industry	US	200	local
CZ	1982 U. S. Census of Agriculture	US	3365	offline
F	1947-1977 County Data Book	US	1022	local
G	1974 U. S. Census of Agriculture	US	1200	local
U	1970 Socio-Econ Characteristics	US	228	local

user chooses  
→ code "F"

DATA: <database code>, extract, newdata, query, mode.

Example 4 showed how to select the appropriate catalogue or dictionary for a particular data base. If the user had such a catalogue in printed form he would begin to leaf through the printed pages, beginning perhaps at the Table of Contents. Data selection within SEEDIS proceeds in much the same fashion, except that SEEDIS allows the user to browse through the catalogue much as he would a paper one. The SEEDIS selection program first prints the cover page of the dictionary. The user can examine the table of contents by invoking the TABLE command, as in the next example.

**Example 5: Examining the Table of Contents**

	<pre>: f</pre> <hr/> <pre>:CCNTDB??          COUNTY DATA BOOK DICTIONARY                   CONSOLIDATED FILE                   COUNTY DATA 1947-1977</pre> <hr/> <pre>Database Code      F</pre> <pre>Geographic Levels state, county</pre> <pre>Directory Authors Fredric Gey, Staff Scientist                   Computer Science and Mathematics Department                   Lawrence Berkeley Laboratory, Mailstop 50B-3238                   Berkeley, CA 94720                   (415) 486-6208 or FTS 451-6208</pre> <pre>Telephone</pre> <pre>Data Source        County and City Data Books 1947-1977                   U.S. Bureau of the Census                   Washington, DC</pre> <pre>Last Update       30 November 1983 Reformatted</pre>
prints table of contents	<pre>: table</pre> <hr/> <pre>F</pre> <pre>DATA: &lt;line letter(s)&gt;, table, &lt;page number&gt;, CR</pre> <pre>County Data Book 1947-1977 Table of Contents</pre>
population data on page 3	<pre>Page    TABLE OF CONTENTS</pre> <hr/> <pre>pref  PREFACE</pre> <pre>table Table of Contents</pre> <pre>1  Introduction</pre> <pre>2  Geographic Designations</pre> <pre>3  General Population Characteristics, Migration</pre> <pre>6    Vital Statistics, Family</pre> <pre>8    Age</pre> <pre>9    Income</pre> <pre>11   Social Security and Public Assistance</pre> <pre>12   Education</pre> <pre>13   Presidential Vote</pre> <pre>14   Medical</pre> <pre>15   Crime and Police</pre> <pre>16   Employment and Labor Force</pre> <pre>16   Employment, General Characteristics</pre> <pre>17   Journey to Work</pre> <pre>18   Local Government Employment</pre>
next screen	<pre>: CR</pre> <pre>DATA: &lt;line letter(s)&gt;, table, &lt;page number&gt;, CR</pre>

table of contents continued	19 Social Security Coverage 19 Unemployment 20 Housing 23 Business and Industries 23 Retail Trade 25 Establishments by Type 26 Payroll and Employment 27 Personal Business and Repair Services 27 Selected Services 28 Establishments by Type 30 Wholesale Trade 31 Mineral Industries 32 Manufactures 36 War Contracts 37 Agriculture 42 Farm Households, Level of Living 43 Banking 44 Local Government 44 Revenue 44 Expenditures 45 Indebtedness
-----------------------------	--

The data catalogue can be examined sequentially from beginning to end by simply pressing successive carriage returns (CR), one after another. On the other hand, each line in the Table of Contents refers to a page number of the text of the catalogue. To view that page within SEEDIS, one simply types that number. For example, to examine Population data from the above catalogue, type "3":

#### Example 6: Selecting Population Data from the County Data Book

choose page 3	DATA: <line letter(s)>, table, <page number>, CR <b>3</b> County Data Book      POPULATION, DENSITY, MIGRATION, RURAL Page 3 Data Elements      Description      Time ----- Population A !CCDBC0012      1940 B !CCDBC0013      1950 C !CCDBC0014      1960 D !CCDBC0015      1970 E !CCDBC0016      1970 F !CCDBC0017      1972 G !CCDBC0018      1975 Population Rank H !CCDBC0006      1950 I !CCDBC0007      1960 J !CCDBC0008      1960 K !CCDBC0009      1970 L !CCDBC0010      1975 Population Rank in Percentile M !CCDBC0011      1940 Land Area in Square Miles N !CCDBC0001      1940
choose data items	DATA: <line letter(s)>, table, <page number>, CR a-d,n number of data elements selected is 5

Notice that to the left of each data item on the previous page there is an alphabetic "sequence character," followed by an exclamation point (!). To select a data item on the displayed page, the user simply types in the appropriate "sequence letters," as above in Example 6 or below in Example 7.

**Example 7: Selecting Housing Data from the County Data Book**

choose page 20	DATA: <line letter(s)>, table, <page number>, CR			
	: 20	County Data Book	HOUSING: UNITS, OCCUPANCY, VALUE	
		Data Elements	Description Time	
			-----	
			Residential Structures	
	A !	CCDBC0282	1940	
	B !	CCDBC0283	1940	
	C !	CCDBC0284	1950	
	D !	CCDBC0285	1960	
	E !	CCDBC0286	1970	
choose data items			Percent Change	
	F !	CCDBC0287	1960-1970	
	G !	CCDBC0288	1950	
	H !	CCDBC0289	1960	
	I !	CCDBC0290	1970	
			Percent in Detached Structures	
	J !	CCDBC0291	1950	
	K !	CCDBC0292	1960	
	L !	CCDBC0293	1970	
			Percent in 5 or More Unit Structures	
: b-e			DATA: <line letter(s)>, table, <page number>, CR	
			number of data elements selected is 4	
			DATA: <line letter(s)>, table, <page number>, CR	
			Data elements selected for this database: 9	
		OCDBC0012	OCDBC0013	OCDBC0014
: review		OCDBC0015	OCDBC0001	OCDBC0283
		OCDBC0284	OCDBC0285	OCDBC0286
			DATA: <line letter(s)>, table, <page number>, CR	
: quit				

Thus, in Example 6 on the previous page, the user has selected total population for the years 1940, 1950, 1960, and 1970 as well as the county area in square miles. In example 7, the number of housing units in the years 1940, 1950, 1960, and 1970 were selected.

A key feature of SEEDIS is the ability to select and retrieve data from more than one data base and merge all selected data items into a single work file for display and analysis.

Another important data base is the 1980 Census Summary Tape File 3 (data base code CF in the list of data bases shown above in example 4). In the following example, we will select 1980 population and housing units from this data base dictionary.

**Example 8: Selecting Data from the 1980 Census**

user chooses code CF	CF	DATA. <database code>, extract, newdata, query, mode  Disk pack SEEDIS005 is not presently on line. Data can be selected but not extracted at this time.
		<hr/> !STF3 1980 CENSUS. SUMMARY TAPE FILE 3 <hr/> Database Code CF Geographic Levels NATION80 CENREG CENDIV STATE COUNTY80 COUNTY CNTY7080 CD87 SCSA81 STSCSA81 SMSA81 STSMSA81 UA80 STUAB0 FED EDBC80PT2 Geographic Scope US (only 38 states for level EDBC80PT2) Directory Authors L. Wong, D. Merrill Lawrence Berkeley Laboratory, Berkeley, CA Data Source Census of Population and Housing, 1980, Census Bureau Last Update 27 October 1983 Documentation \$ copy disk\$seedis004:[seedis.seedict]stf3.sof *.* \$ copy\$seedis:[seedis.docs]saft stf3 print

population data on page 32	table	DATA. <line letter(s)>, table, <page number>, CR  1980 Census: STF3
	CF	Page 2 of 385
housing data on page 34		PAGE TABLE OF CONTENTS <hr/> 1 Title Page 2 Table of Contents 14 Subject Matter Description 15 Data Elements 16 Known Errors and Omissions 31 Table Description 31 TAB1. Urban and Rural (3) 31 TAB2. Unweighted Sample Count of Persons (1) 32 TAB3. 100-Percent Count of Persons (1) 32 TAB4. Urban and Rural (3) 32 TAB5. Unweighted Sample Count of Housing Units 34 TAB6. 100-Percent Count of Housing Units 35 TAB7. Farm Residence (Current Farm) 35 TAB8. Farm Residence (1970 Census Farm) 36 TAB9. Families (1) 36 TAB10 Households (1) 37 TAB11 Occupancy Status (3)

choose page 32	32 CF	DATA: <line letter(s)>, table, <page number>, CR			
		1980 Census: STF3	Page 32 of 396		
		TAB3: 100-Percent Count of Persons (1)			
		Universe: 100-Percent Count of Persons			
Data Element Sup Description					
A !TAB3(1)			100-Percent Count of Persons		
			TAB4: Urban and Rural (3)		
			Universe: Housing Units (Including Vacant Seasonal And Migratory Units)		
			Note: To obtain urban count, subtract rural from total.		
Data Element Sup Description			Footnote: 1 50		
B !TAB4(1)			Total		
C !TAB4(2)			Inside urbanized areas		
D !TAB4(3)			Rural		
select total population			DATA: <line letter(s)>, table, <page number>, CR		
:a			Number of data elements selected is 1		
page 34			DATA: <line letter(s)>, table, <page number>, CR		
34 CF			1980 Census: STF3		
			Page 34 of 396		
			TAB6: 100-Percent Count of Housing Units (Including Vacant Seasonal and Migratory Units (1))		
			Universe: 100-Percent Count of Housing Units (Including Vacant Seasonal And Migratory Units)		
Data Element Sup Description			Footnote: 1 38		
A !TAB6(1)			100-Percent Count of Housing Units (Including Vacant Seasonal and Migratory Units)		
obtain housing units			DATA: <line letter(s)>, table, <page number>, CR		
:a			Number of data elements selected is 1		
end data selection			DATA: <line letter(s)>, table, <page number>, CR		
: quit			DATA: <database code>, extract, newdata, query, model		

As this example shows, the user first examines the table of contents of the data base catalogue using the "table" command. The table of contents shows that population data is on page 32, and housing data are on page 34 of the catalog. The user enters a page number to go to the appropriate page and then selects data elements he/she is interested in.

#### To Review: What have we done so far in DATA Selection

1. Selected the county data book
2. Selected 1940, 1950, 1960, 1970 total population and land area
3. Selected 1940, 1950, 1960, 1970 total housing units
4. Selected 1980 Census STF3 total population and total housing units

**Data Extraction**

Data values are not automatically retrieved when items are selected. For efficiency (particularly if network access is involved), the user explicitly invokes data extraction once (as illustrated below), to retrieve all previously selected data to his or her own working data file. No other information about file names or storage locations needs to be supplied.

retrieves selected data	: extract	DATA: <database code>, extract, newdata, query, model
-------------------------	-----------	---

**Review of Current Status**

The global review command produces a standard display of information about the user's current status, as shown below.

user requests report on current status	: review	DATA: <database code>, extract, newdata, query, model
	geographic level	COUNTY
	geographic scope	contains 3 geographic units
	geographic area	
	data selection	none remain to be extracted
	data models	none remain to be calculated
	working data file	contains 14 data elements
	graphic device	
	map projection	
	disk packs	SEEDIS001 is on <u>D0A1</u> : SEEDIS002 is not on line SEEDIS003 is not on line SEEDIS004 is on <u>DR85</u> . SEEDIS005 is on <u>DR86</u> . CENS80005 is not on line (If necessary, type <del>dsched</del> to schedule disk packs. All packs are new big packs. System mounting required.)
finishes with data selection	: quit	DATA: <database code>, extract, newdata, query, model
		SEEDIS area, data, display, profile

Having selected and extracted his data, the user is ready to examine what has been obtained. This is done by leaving the DATA section and proceeding to the DISPLAY section of SEEDIS.

**Tabular Display of Data Values**

Data display within SEEDIS is accessed via the various DISPLAY menu options. The simplest is a LIST routine for listing data values in tabular form at the terminal or on a line printer. As usual, the user can invoke "?" or "help" to select an appropriate command option. Here, our hypothetical user requests a description of command options.

<b>user proceeds to data display</b>  <b>selects option for tabular listing requests description of available commands</b>	<b>display</b>	SEEDIS, area, data, display, profile
		DISPLAY, chart, list, map, plot, device
	<b>list</b>	
	<b>?</b>	DISPLAY/LIST, page, type, print
	<b>Input</b>	Description
	<b>page</b>	list data at the terminal page by page
	<b>type</b>	list data at the terminal without paging
	<b>print</b>	print data on the line printer
	<b>?</b>	list available commands in this menu
	<b>help</b>	describe alternatives for listing data
	<b>show</b>	list names and labels of data elements in working data set
	<b>review</b>	list current session status and history
	<b>cancel</b>	[no effect]
	<b>quit</b>	return to previous menu
	<b>*&lt;comment&gt;</b>	enter comment in SEEDIS log

The **print** option above refers to the line printer located in Berkeley. If you have printed output which you would like to receive, call LBL or the SEEDIS Application's Service Center.

Our user now requests listing of the data at the terminal.

<b>user requests display to be typed at terminal without paging</b>  <b>Note: SEEDIS automatically formats the report with column titles</b>	<b>type</b>	DISPLAY/LIST, page, type, print
		FIPS, STATE      FIPS, COUNTY
	KS JEFFERSON	20      087
	KS OSAGE	20      139
	KS SHAWNEE	20      177
		OCDBC0012      OCDBC0013
		Population 1940      Population 1950
	KS JEFFERSON	12718      11084
	KS OSAGE	15118      12811
	KS SHAWNEE	91247      105418
		OCDBC0014      OCDBC0015

Population 1960 Population 1970

KS JEFFERSON	11252	11945
KS OSAGE	12886	13362
KS SHAWNEE	141286	155322

CCDB00001 CCDB00283

	Land Area in Square Miles 1940	Housing Units 1940
--	--------------------------------------	-----------------------

KS JEFFERSON	549	4027
KS OSAGE	721	5007
KS SHAWNEE	545	28009

CCDB00284 CCDB00285

Housing Units 1950	Housing Units 1960
-----------------------	-----------------------

KS JEFFERSON	3838	3862
KS OSAGE	4462	4788
KS SHAWNEE	33917	46015

CCDB00286 TAB3(1)

Housing Units 1970	100-Percent Count of Persons (1)
-----------------------	--

KS JEFFERSON	4055	15207
KS OSAGE	4898	15319
KS SHAWNEE	51929	154918

TAB6(1)

Housing Units	100-Percent Count of Persons (1)
---------------	--

KS JEFFERSON	5817
KS OSAGE	6152
KS SHAWNEE	64446

user finishes  
data listing

quit

DISPLAY/LIST, page, type, print

## Chart Making

The SEEDIS CHART module provides extensive facilities for producing standard and customized charts on various output devices. Terminal interfaces are available for the Tektronix 4010, 4014/15/16, and color 4027 and 4105 terminals. The output may be obtained on an IBM-PC using a 4010 emulation program.

CHART itself can create bar charts, line graphs, pie charts, and do significant statistical and other calculations. Of the many commands available within CHART, we shall illustrate the following:

command	meaning
WINDOW	narrow down to specific rows or columns
MASK	mask out undesired columns of data
PLOT REPORT	print out the data in report form
BAR	draw a bar chart
PIE	draw a pie chart

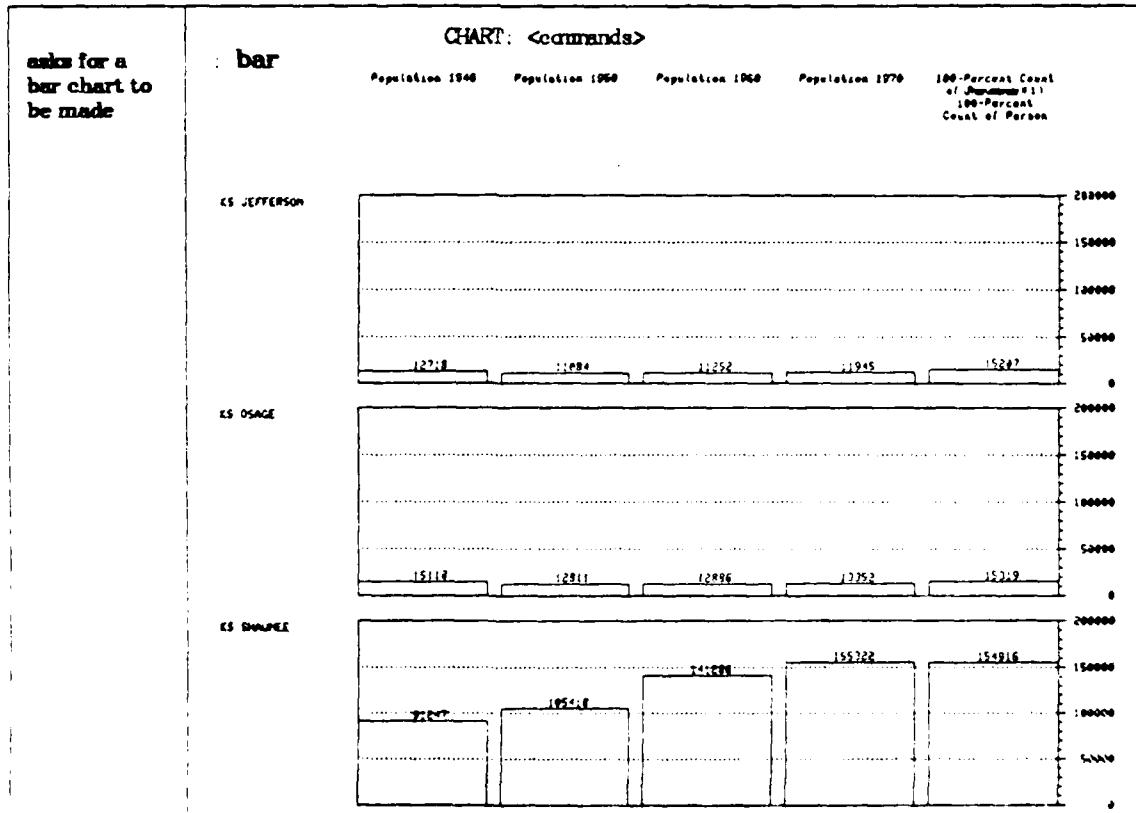
user enters chart module	: chart	DISPLAY: chart, list, map, plot, device																																															
		Table size is 3 rows by 11 columns. For tables larger than one screenful see "help table size"																																															
requests default bar chart	: plot report	CHART: <commands>																																															
		<table border="1"> <thead> <tr> <th></th> <th>Population in 1940</th> <th>Population in 1950</th> <th>Population in 1960</th> <th>Population in 1970</th> <th>Land Area Square Miles</th> <th>1940</th> <th>Housing Units 1950</th> <th>Housing Units 1960</th> <th>Housing Units 1970</th> <th>100-Percent White Population in 1970</th> <th>100-Percent White Population in 1970 of Person Units</th> </tr> </thead> <tbody> <tr> <td>ES JEFFERSON</td> <td>18718</td> <td>11084</td> <td>11252</td> <td>11948</td> <td>549</td> <td>4027</td> <td>3839</td> <td>3862</td> <td>4055</td> <td>15207</td> <td>5817</td> </tr> <tr> <td>ES OSAGE</td> <td>15118</td> <td>12811</td> <td>12896</td> <td>13752</td> <td>721</td> <td>5007</td> <td>4462</td> <td>4788</td> <td>4998</td> <td>15319</td> <td>6152</td> </tr> <tr> <td>ES SHAWNEE</td> <td>91247</td> <td>105418</td> <td>141286</td> <td>155322</td> <td>545</td> <td>28009</td> <td>33917</td> <td>46015</td> <td>51929</td> <td>154916</td> <td>64446</td> </tr> </tbody> </table>		Population in 1940	Population in 1950	Population in 1960	Population in 1970	Land Area Square Miles	1940	Housing Units 1950	Housing Units 1960	Housing Units 1970	100-Percent White Population in 1970	100-Percent White Population in 1970 of Person Units	ES JEFFERSON	18718	11084	11252	11948	549	4027	3839	3862	4055	15207	5817	ES OSAGE	15118	12811	12896	13752	721	5007	4462	4788	4998	15319	6152	ES SHAWNEE	91247	105418	141286	155322	545	28009	33917	46015	51929	154916
	Population in 1940	Population in 1950	Population in 1960	Population in 1970	Land Area Square Miles	1940	Housing Units 1950	Housing Units 1960	Housing Units 1970	100-Percent White Population in 1970	100-Percent White Population in 1970 of Person Units																																						
ES JEFFERSON	18718	11084	11252	11948	549	4027	3839	3862	4055	15207	5817																																						
ES OSAGE	15118	12811	12896	13752	721	5007	4462	4788	4998	15319	6152																																						
ES SHAWNEE	91247	105418	141286	155322	545	28009	33917	46015	51929	154916	64446																																						

In this section, we show how to create a bar chart.

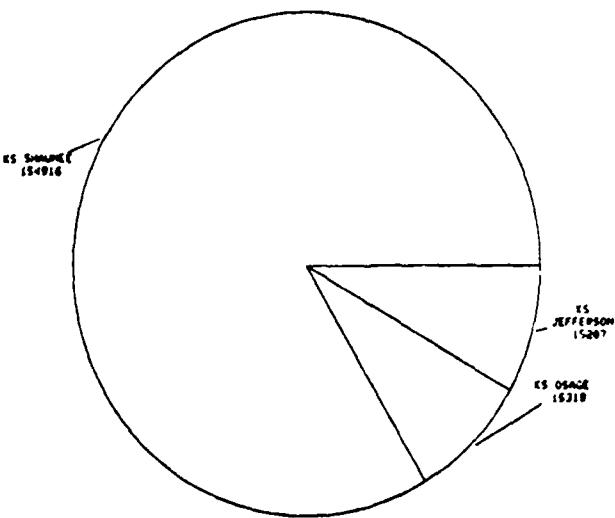
First, to have a reasonable bar chart of comparable data we mask out all but the 1940, 1950, 1960, 1970, and 1980 housing unit data.

masks out unwanted columns	CHART: <commands>					
	Population 1940	Population 1950	Population 1960	Population 1970	100-Percent Count of Persons	100-Percent Count of Persons
ES JEFFERSON	12718	11094	11252	11945	15207	
ES OSAGE	15118	12811	12896	12752	15219	
ES SHAWNEE	91247	105418	141286	155322	154916	

Then a bar chart may be drawn by simply typing the command "bar." The images shown were reduced from Tektronix hard-copy output.



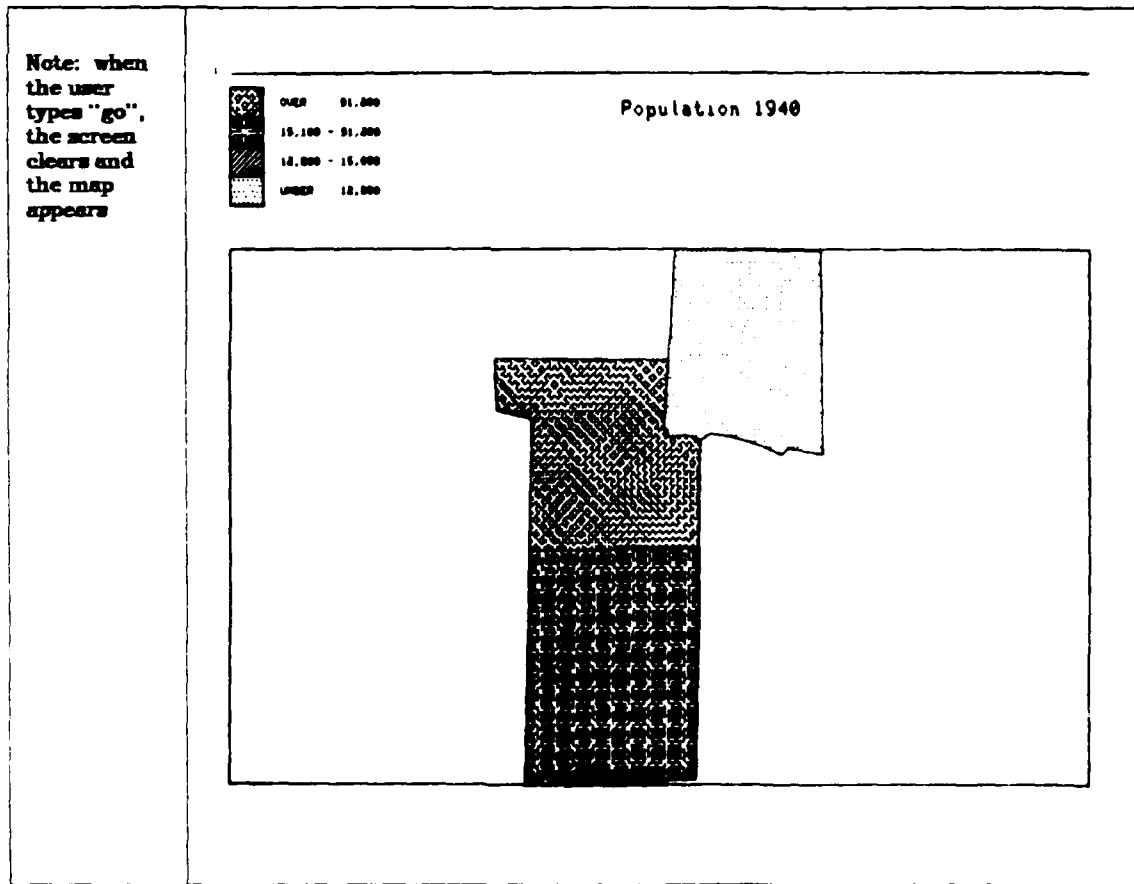
Similar simple default pie charts can be produced with the command "pie."

turns off plot display	: plot none CHART: <commands>						
asks for 1980 population column	: window col 5 CHART: <commands>						
	: plot report CHART: <commands>						
	<p>100-Percent Count of Persons (1) Universal 100-Percent Count of Person</p> <table><tr><td>KS JEFFERSON</td><td>15207</td></tr><tr><td>KS OSAGE</td><td>15319</td></tr><tr><td>KS SHAWNEE</td><td>154916</td></tr></table>	KS JEFFERSON	15207	KS OSAGE	15319	KS SHAWNEE	154916
KS JEFFERSON	15207						
KS OSAGE	15319						
KS SHAWNEE	154916						
asks for a pie chart to be made	: pie CHART: <commands>						
	<p>100-Percent Count of Persons (1) Universal 100-Percent Count of Person</p> 						
finishes chart module	: quit						

**Map Making**

SEEDIS has a wide variety of map-making capabilities. The example below illustrates the simplest default map produced automatically for the extracted data on a Tektronix 4014 terminal and associated hard-copy device.

<b>user enters mapping module</b>  <b>requests default map</b>	<pre> : display       DISPLAY: chart, list, map, plot, device  : device       DISPLAY/TERMINAL: &lt;graphic output device&gt;  : 4014       DISPLAY: chart, list, map, plot, device  : map       CARTE: &lt;commands&gt;        CCDBC0012       #Population 1940#       OVER      91200      1       15100 -    91200      1       12800 -    15100      0       UNDER     12800      1       DATA NOT AVAILABLE      0       Type "go" to see the map.       : go     </pre>



**Ending A SEEDIS Session**

Since the geographic area list and working data file are automatically stored in the user's current working directory, he can terminate a SEEDIS session and resume work at a later time. The user in our example below types a succession of "quit" commands to leave the map, display, and SEEDIS modules respectively, and then "logout" to terminate the VMS computer session. The next time the user logs onto VMS and enters SEEDIS he can type "review" to be reminded of what has already been specified, and then select additional data or proceed directly to display and analysis.

<b>user finishes map module</b>	: quit	DISPLAY: chart, list, map, plot, device
<b>finishes data display</b>	: quit	SEEDIS: area, data, display, profile
<b>finishes using SEEDIS</b>	: quit	
<b>leaves VMS</b>	<b>s logout</b>	ARMYCORPS logged out at 09-SEP-1985 16:07:43.47

**Advanced Features**

This concludes the description of the beginning features of SEEDIS. The next sections describe intermediate features of SEEDIS, including scheduling disk packs for off-line data, entering new data into SEEDIS work files, computing derived values and advanced charts, and transforming SEEDIS work files into equivalent files which are readable by SPSS and LOTUS 1-2-3.

### Scheduling disk packs containing SEEDIS data

Since the amount of data archived in SEEDIS is around 5 billion data values, it sometimes happens that the particular data file that a user wishes to retrieve is not currently on-line, but is stored on a magnetic disk pack. In this case the particular pack containing the data must be scheduled in advance. The purpose of this section is to show how this might be done.

Disk pack scheduling is done outside SEEDIS, using a utility program called **dsched**. The following screens show how to schedule two disk packs, CENSAGR001 which contains the 1982 U.S. Census of Agriculture, and CENS80005 which contains PLACE80 data for the 1980 Census STF3.

We begin by assuming that the user has logged in on a Tuesday, and finding that his data is not currently on-line, wishes to schedule it for Wednesday, seeking first to retrieve Census of Agriculture data in the morning (Pacific Time) and place data for the 1980 Census on Wednesday afternoon. Before you begin, you should have quit out of SEEDIS and be back to the computer's dollar sign (\$) prompt:

<b>User invokes dsched utility Asks to see the Wednesday schedule</b>	<b>\$ dsched</b> Which day's schedule do you wish to see ? Mon, Tue, ..., Fri, or Quit ? <b>wed</b> Old small disks or New big disks [old/new] ? <b>new</b> Private pack schedule - big disks - LBLH & LBLG			
	<b>wednesday 16-oct-1985</b>			
	LBLH-DRC6	LBLH-DRC7	LBLG-DRC2	LBLG-DRC3
	morning (1) 0830-1200	(2) seedis005 gey (system)	(3)	(4) blk system disk
	afternoon (5) 1200-1630	(8) seedis005 gey (system)	(7)	(8) blk system disk
	evening (9) 1630-0400	(a) seedis005 gey (system)	(b)	(c) blk system disk
<b>Schedules CENSAGR001 in slot 1 puts his username and system mount</b>	Select reservation slot by number, 1-c To see another day enter 0 Slot: <b>1</b> Pack name (or slot # if same as other): <b>censagr001</b> Your username: <b>armykorps</b> System mounted (y/n)? <b>y</b> censagr001 armykorps (system) Slot: <b>6</b>			

In the above example, two items are important to note. First, all SEEDIS disks are on the big disks (called **new**), and thus this scheduling option should always be chosen. Second, the "system mounted (y/n)?" query should always be answered **y** so that the SEEDIS pack can be accessed by all other SEEDIS users (and not just the person who scheduled it).

The following screen looks at Wednesday again, both to confirm that CENSAGR001 has been scheduled correctly, and to schedule the CENS80005 disk pack.

Which day's schedule do you wish to see ? Mon,Tue,...,Fri,Quit,or <CR> for other disks ? wed Old small disks or New big disks [old/new] ? n Private pack schedule - big disks - LBLH & LBLG				
wednesday 16-oct-1985				
	LBLH-DRC6	LBLH-DRC7	LBLG-DRC2	LBLG-DRC3
	morning (1) censagr001 0830-1200 armycorps (system)	(2) seedis005 gey (system)	(3)	(4) lblk system disk
	afternoon (5) 1200-1630	(6) seedis005 gey (system)	(7)	(8) lblk system disk
	evening (9) 1630-0400	(a) seedis005 gey (system)	(b)	(c) lblk system disk
Select reservation slot by number, 1-c To see another day enter 0 Slot: 5 Pack name (or slot # if same as other). cens80005 Your username: armycorps System mounted (y/n)? y cens80005 armycorps (system) Slot: 0				
Zero goes to new day				

It is worthwhile to repeat the examination of the Wednesday schedule in order to confirm that the correct pack has been entered for the proper time slot.

Which day's schedule do you wish to see ? Mon,Tue,...,Fri,Quit,or <CR> for other disks ? wed Old small disks or New big disks [old/new] ? n Private pack schedule - big disks - LBLH & LBLG				
wednesday 16-oct-1985				
	LBLH-DRC6	LBLH-DRC7	LBLG-DRC2	LBLG-DRC3
	morning (1) censagr001 0830-1200 armycorps (system)	(2) seedis005 gey (system)	(3)	(4) lblk system disk
	afternoon (5) cens80005 1200-1630 armycorps (system)	(6) seedis005 gey (system)	(7)	(8) lblk system disk
	evening (9) 1630-0400	(a) seedis005 gey (system)	(b)	(c) lblk system disk
Select reservation slot by number, 1-c To see another day enter 0 Slot: 0				

## Entering New Data Into SEEDIS Work Files

It often happens that the user of a data archive (such as SEEDIS) has available, from published or private sources, more recent data than is in the system. SEEDIS, through the NEWDATA module, provides a mechanism by which user data may be entered and integrated into the SEEDIS work file. This feature allows user-supplied data to be used with the chart-making and map-making routines within SEEDIS.

In the following example, the SEEDIS user has obtained the Census bureau publication CAO-82-13 *Housing Units Authorized by Building Permits and Public Contract: Annual 1982*, which on Pages 126 and 130 has new private housing authorized in 1981 and 1982 for communities in Jefferson and Shawnee counties in Kansas. Data for Osage County are not available. The user adds up the data to obtain county totals:

	1981	1982
Jefferson	40	40
Shawnee	360	361

These data will be entered into SEEDIS.

<b>user has re-entered SEEDIS and typed 'data'</b>	<b>newdata</b>	DATA: <database code>, extract, newdata, query, model
	<b>?</b>	NEWDATA: <data name>
	<b>Input</b>	<b>Response</b>
	<data name>	append to current list of data names
	<b>?</b>	list commands available in this menu
	<b>help</b>	describe how to enter list of data names
	<b>show</b>	[no effect]
	<b>review</b>	display current list of data names
	<b>cancel</b>	erase current list of data names
	<b>quit</b>	recess newdata session
	<b>help</b>	NEWDATA: <data name>
		<b>ENTERING NEW DATA NAMES</b>
		You must enter a different name for each data item that is to be given values. A data name can be up to 16 characters in length (counting internal blanks). These names will be used as prompts as you enter data values, so more than 16 characters may be used to enhance the prompts. Enter one name per line and enter CR to terminate the list of names.
		You can interrupt your Newdata session at any point merely by typing "quit". Everything you have typed previously will be preserved, and you can resume where you leave off when you next login to SEEDIS
		NEWDATA: <data name>
	<b>newhou81</b>	
	<b>newhou82</b>	
	<b>CR</b>	
<b>Carriage return ends definition</b>		

Once the data names have been entered into NEWDATA, the user is prompted to enter values for each area associated with his work file

user prompted for Jefferson County	Enter: newhou81 newhou82 KS JEFFERSON:	
	: ?	NEWDATA: <data value(s)>, missing
Input	Response	
<value(s)> missing	assign value(s) to corresponding data name(s) assign value "Nil" to corresponding data name	
?	list commands available in this menu	
help	describe entering data values	
show	[no effect]	
review	[no effect]	
cancel	[no effect]	
quit	recess newdata session	
	Enter: newhou81 newhou82 KS JEFFERSON:	
: help	NEWDATA: <data value(s)>, missing	
	ENTERING NEW DATA VALUES	
	You must supply a data value for every new data item being added. Enter data values on separate lines or separated by blanks (if more than one data value per line). Observe the following conventions:	
	Enter the word "missing" to indicate missing data.	
	Use quotes (e.g., "New Orleans") to enter text strings which contain blanks.	
	Use quotes (e.g., "?", "quit") to enter reserved symbols as text strings.	
	Use double quotes (e.g., "I said ""Hello""") inside of quoted text strings.	
	You can interrupt your Newdata session at any point merely by typing "quit". Everything you have typed previously will be preserved, and you can resume where you leave off when you next login to SEEDIS.	

As with other portions of SEEDIS, typing the global command **help** will provide the user with assistance.

		Enter: newhou81 newhou82 KS JEFFERSON:
data entered for Jefferson	: 40 40	NEWDATA: <data value(s)>, missing
missing data entered for Osage County	: missing missing	Enter: newhou81 newhou82 KS OSAGE:
		NEWDATA: <data value(s)>, missing
data for Shawnee County	: 360 361	Enter: newhou81 newhou82 KS SHAWNEE:
		NEWDATA: <data value(s)>, missing
		Data entry completed. SEEDIS file written.
	: quit	DATA: <database code>, extract, newdata, query, model

	display	SEEDIS: area, data, display, profile	
	list	DISPLAY: chart, list, map, plot, device	
	type	DISPLAY/LIST: page, type, print	
		FIPS STATE FIPS COUNTY	
	KS JEFFERSON	20	087
	KS OSAGE	20	139
	KS SHAWNEE	20	177
		CCDB00012 CCDB00013	
		Population 1940 Population 1950	
	KS JEFFERSON	12718	11084
	KS OSAGE	15118	12811
	KS SHAWNEE	91247	105418
		CCDB00014 CCDB00015	
		Population 1960 Population 1970	
	KS JEFFERSON	11252	11945
	KS OSAGE	12886	13362
	KS SHAWNEE	141286	150322
		CCDB00001 CCDB00283	

	Land Area in Square Miles 1940	Housing Units 1940	
KS JEFFERSON	549	4027	
KS OSAGE	721	5007	
KS SHAWNEE	545	28009	
	OCDB0284	OCDB0285	
	Housing Units 1950	Housing Units 1960	
KS JEFFERSON	3839	3862	
KS OSAGE	4482	4788	
KS SHAWNEE	33917	46015	
	OCDB0286	TAB3(1)	
	Housing Units 1970	100-Percent Count of Persons 100-	
KS JEFFERSON	4055	15207	
KS OSAGE	4898	15319	
KS SHAWNEE	51929	154916	
	TAB6(1)	NEWHOU81	
	100-Percent Count of Housing Units	newhou81	
KS JEFFERSON	5817	40	
KS OSAGE	6152	-9	
KS SHAWNEE	34446	360	
	NEWHOU82		
	newhou82		
KS JEFFERSON	40		
KS OSAGE	-9		
KS SHAWNEE	361		
: quit	DISPLAY/LIST: page, type, print		

## Computation Using Chart

### Computing 1983 Estimated Housing Units

This section demonstrates the use of the CHART system to compute new values from existing SEEDIS data, and to do analytical tasks deriving information from the data. Specifically, we will use the data entered with the NEWDATA module to estimate 1983 housing units. Following that we will use the system to compute percent change in housing units over four decades (1940-1980).

<b>Invoke the CHART system</b>	<b>chart</b>	DISPLAY, chart, list, map, plot, device NEWDATA. 21-DEC-84  Table size is 3 rows by 13 columns. For tables larger than one screenful see "help table size" CHART: <commands>
	<b>: plot report</b>	(insert paste up screen c-1 here)
<b>Masks out the population columns to concentrate on housing</b>	<b>mask col 1-5 10</b>	(insert paste up screen c-2 here)

Narrow down to 1980 units, and permits authorized	mask col 1-4	HEADATA. 100-Percent Count of Housing Units (Including Vacant, Seasonal and	nouth81	nouth82
		ES JEFFERSON ES OSAGE ES SHAWNEE	5817 6152 64446	40 360
				40 361
Sum 1980 housing units with 1981-1982 authorized	insert col	TYPE LABEL ON ONE LINE, THEN 3 DATA VALUES ON NEXT LINES.	TYPE A BLANK LINE TO EXIT.	
	COL 4 1983 Housing units =col1+col2+col3			
Carriage Return ends input and computation	COL 5 CR	HEADATA. 100-Percent Count of Housing Units (Including Vacant, Seasonal and	nouth81	nouth82
		ES JEFFERSON ES OSAGE ES SHAWNEE	5817 6152 64446	40 360
				5897 6152 64446

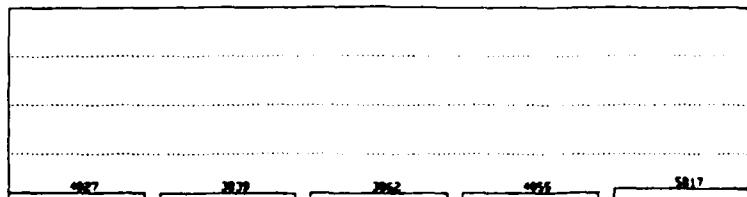
The next two pages demonstrate elementary formatting commands for the CHART system, including removing the grid on a bar chart, replacing a column label with a more readable one, and shading a chart with a cross-hatched grid.

The 'backup' command restores the masked columns	backup mask col 1-5 10 12-13 plot report	HEADATA. 1940 1950 Housing Units 1960 1970 1980 100-Percent Count (Including Vacant, Seasonal and					
		ES JEFFERSON ES OSAGE ES SHAWNEE	4627 5007 28009	3870 4462 17917	3862 4781 46015	4055 4878 51929	5817 6152 64446

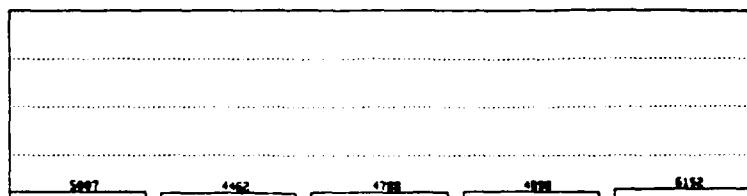
bar

REGDATA.  
1940 1950 Housing Units 1960 1970  
100-Percent Count  
of Non-Occupied  
Vacant Residential  
Units

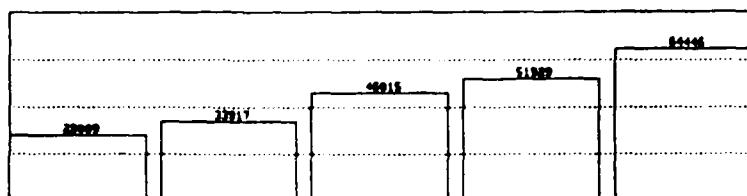
KS JEFFERSON



KS OSAGE



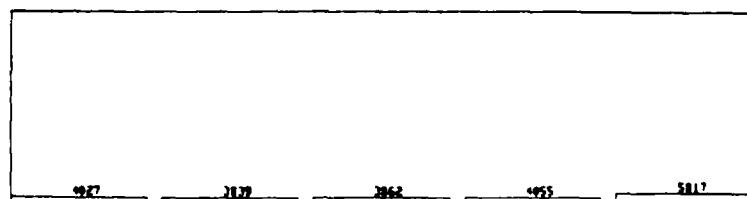
KS SENECA



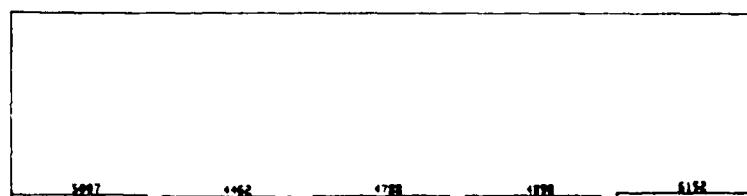
grid none

REGDATA.  
1940 1950 Housing Units 1960 1970  
100-Percent Count  
of Non-Occupied  
Vacant Residential  
Units

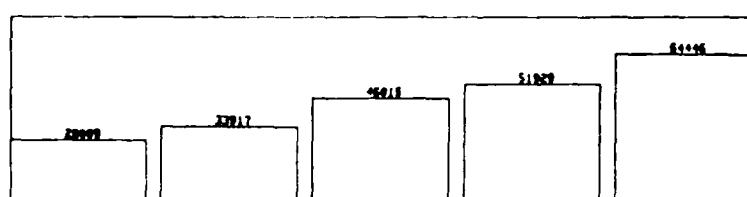
KS JEFFERSON



KS OSAGE



KS SENECA

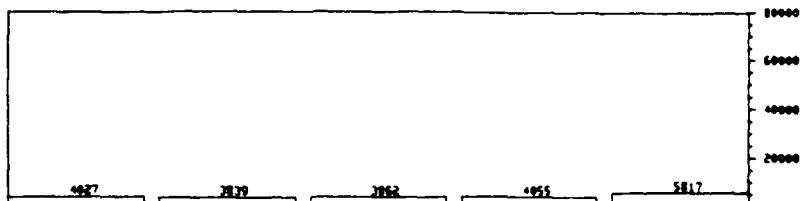


Replace the  
SEEDIS  
dictionary  
label with  
our own

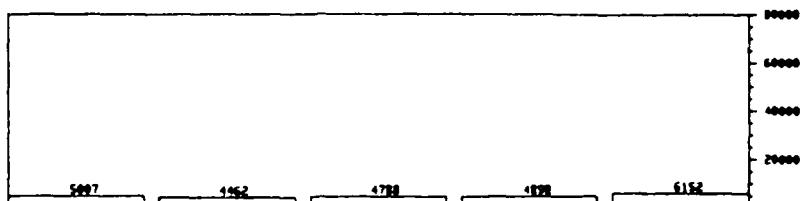
replace label col 5  
TYPE LABEL ON ONE LINE FOR COL 5  
Housing Units 1980

NEVADA 1940 1950 Housing Units 1960 1970 Housing Units 1980

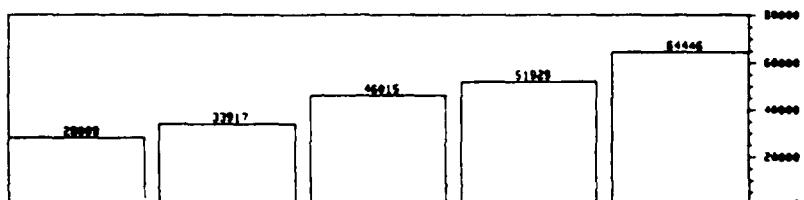
ES JEFFERSON



ES OSAGE



ES SHAWNEE

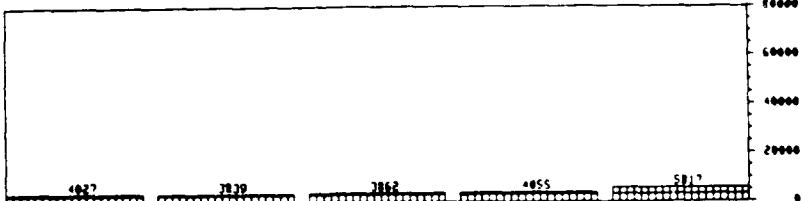


shade .5

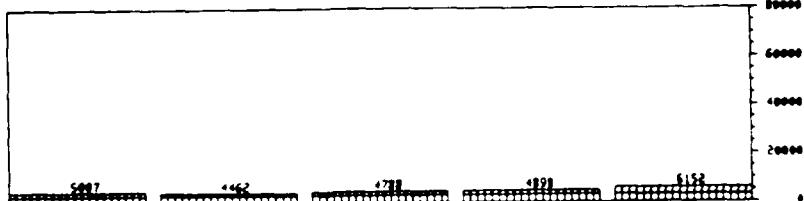
NEVADA

1940 1950 Housing Units 1960 1970 Housing Units 1980

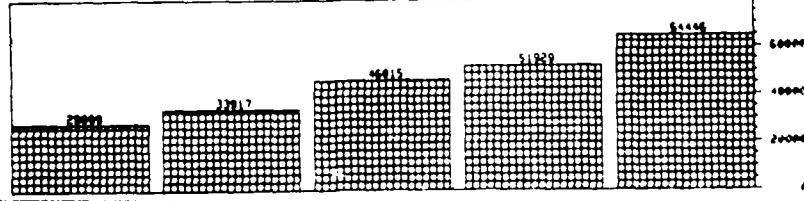
ES JEFFERSON



ES OSAGE



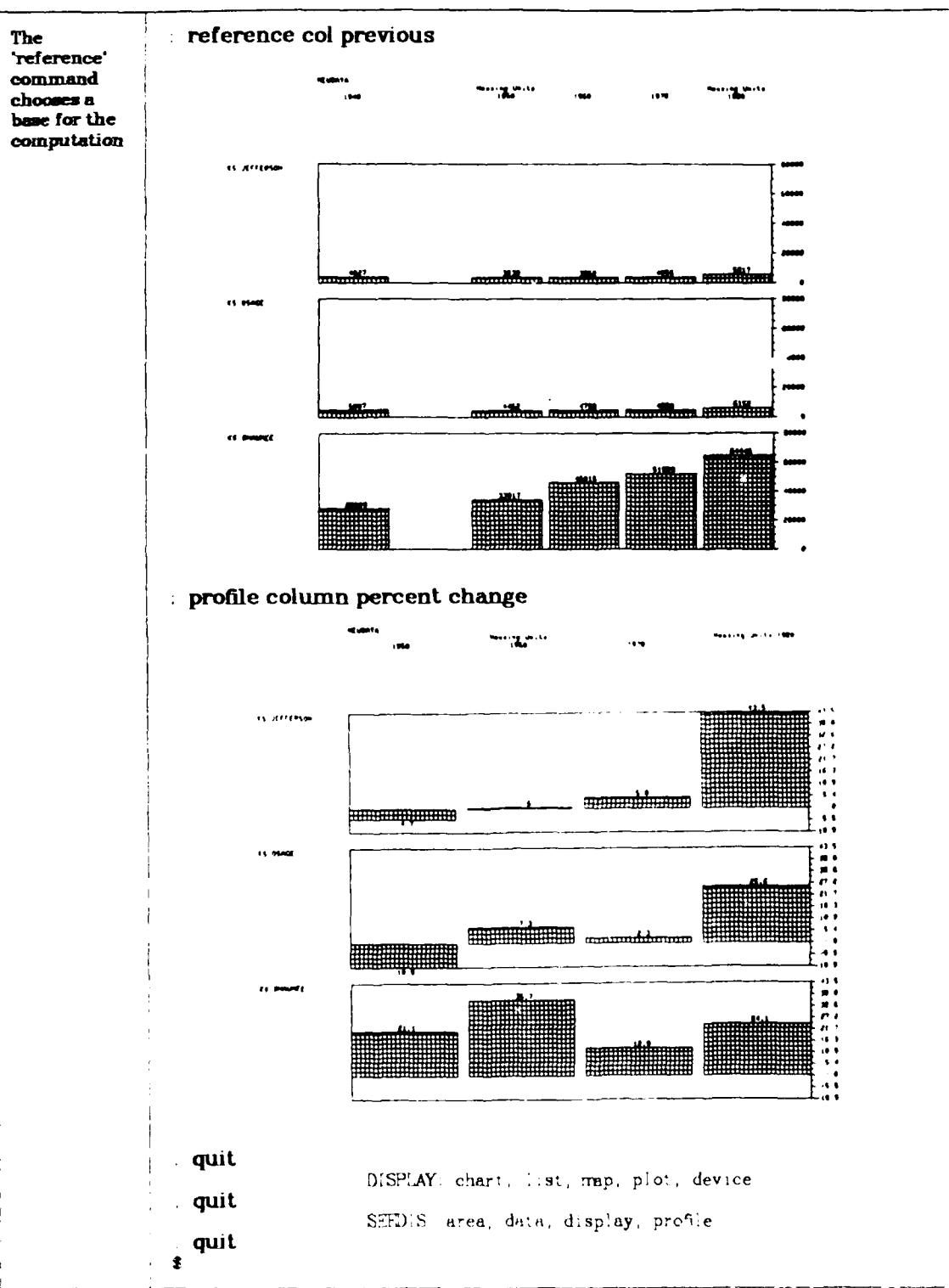
ES SHAWNEE



Shades the  
graph with  
density  
between 0  
and 1

**Using the CHART 'profile' command**

This final page demonstrates the power of CHART commands which can apply computation to all columns of a table simultaneously. In this case CHART will compute and display (profile) the percent change in housing units from 1940 to 1980.



## Transforming SEEDIS Work Files

During Fiscal Year 1984, LBL implemented a number of tools for *transforming* SEEDIS work files into self-describing files readable by other software. This helps facilitate downloading of files to microcomputers for analysis and display using software available there, or for export to other computers for use with widely available statistical software. This writeup will demonstrate the use of tools to transform to the SPSS (Statistical Package for the Social Sciences) input data format, and to the DIF (Data Interchange Format) format used by many microcomputer spreadsheet programs.

### SEEDIS Work File (CODATA.DAT) Format

When a SEEDIS user types the "extract" command, a SEEDIS work file is created which contains only those areas he has specified with the AREA module, and only those data elements he has specified within the DATA module. This file resides in the user's space and has the name "CODATA.DAT" (the term "codata" stands for "common data", a format which is readable and writeable by the many modules within SEEDIS). Codata files are eye-readable character text files containing two logical parts: the data description file (DDF) and the data file (DF). The DDF contains file-level information about the number of geographic areas and the number of data elements. It also contains information about each data element, including a short name, a descriptive label, data type (integer, decimal, or alphanumeric), field length, and location in the record. This is schematically described in the following table:

#### Schematic Diagram of CODATA File Format

	Data Definition File (DDF)			file info....
	de 1 info	de 2 info	...de n info	
	Data File (DF)			
record 1	de 1 value	de 2 value	...de n value	
record 2	de 1 value	de 2 value	...de n value	
record 3	de 1 value	de 2 value	...de n value	
.				
.				
record m	de 1 value	de 2 value	...de n value	

With this background in mind, the user can use the VAX *type* command to actually look at his SEEDIS work file, as shown below.

DDF Data Definition Files begins here	<pre>\$ type codata.dat NDE = 16 AREAS = 3 CARDLENGTH = 70 MISSING = -9.000000000 -9.000000000 FILE =#NEWDATA.# FILE =#17-AUG-84# *LEVEL = COUNTY DE = FIPS.STATE TYPE = A USE = K START = 1 LENGTH = 2 DE = FIPS.COUNTY TYPE = A USE = K START = 4 LENGTH = 3 DE = STUB.GEO TYPE = A USE = S START = 8 LENGTH = 33 DE = CCDBC0012 TYPE = I USE = D START = 42 LENGTH = 9 HEADER =#Population 1940# DE = CCDBC0013 TYPE = I USE = D START = 52 LENGTH = 9 HEADER =#Population 1950# DE = CCDBC0014 TYPE = I USE = D START = 62 LENGTH = 9 HEADER =#Population 1960# DE = CCDBC0015 TYPE = I USE = D START = 71 LENGTH = 9 HEADER =#Population 1970# DE = CCDBC0001 TYPE = I USE = D START = 81 LENGTH = 9 HEADER =#Land Area in# HEADER =#Square Miles# HEADER =#1940# DE = CCDBC0283 TYPE = I USE = D START = 91 LENGTH = 9 HEADER =#Housing Units# HEADER =#1940#</pre>
--	---

DE = CCDBC0284 TYPE = I USE = D START = 101 LENGTH = 9 HEADER =#Housing Units# HEADER =#1950# DE = CCDBC0285 TYPE = I USE = D START = 111 LENGTH = 9 HEADER =#Housing Units# HEADER =#1960# DE = CCDBC0286 TYPE = I USE = D START = 121 LENGTH = 9 HEADER =#Housing Units# HEADER =#1970# DE = TAB3(1) TYPE = I USE = D START = 131 LENGTH = 9 HEADER =#100-Percent Count of Persons (1)# HEADER =#Universe: 100-Percent Count of Persons# DE = TAB6(1) TYPE = I USE = D START = 141 LENGTH = 9 HEADER =#100-Percent Count of Housing Units # HEADER =#(Including Vacant Seasonal and # HEADER =#Migratory Units (1)# HEADER =#Universe: 100-Percent Count of Housing # HEADER =#Uni# DE = NEWHOU81 TYPE = I USE = D START = 151 LENGTH = 5 HEADER =#newhou81# DE = NEWHOU82 TYPE = I USE = D START = 157 LENGTH = 5 HEADER =#newhou82# END DDF							
	20	087	KS JEFFERSON			12718	11084
	11945	549		4027	3839	3862	4055
	5817	40	40				15207
	20	139	KS OSAGE			15118	12811
	13352	721		5007	4462	4788	4898
	6152	-9	-9				15319
	20	177	KS SHAWNEE			91247	105418
	155322	545		28009	33917	46015	51929
	84446	360	361				154916

Data File  
(DF) begins  
here

## Using the Transformation Tools

There are three tools to use to transform the SEEDIS work file (CODATA.DAT) into an export file format: *COSPSS* to transform into an SPSS input deck, *CODIF* to transform into a spreadsheet DIF file form, and *COSAS* to transform into a SAS input deck. The first two of these tools will be demonstrated; the third works in a similar fashion. All of the tools are used *outside* of SEEDIS, i.e. directly from the "\$" prompt.

Following the conventions of the UNIX operating system and the software tools, the transformation tools operate on a single input file (usually CODATA.DAT) and produce a single output file. The input file name is immediately preceded by a "<" (left angle bracket) and the output file is immediately preceded by a ">" (right angle bracket). Thus the entire command is of the form:

**\$ tool <inputfile >outputfile**

After the user has typed the command to invoke the tool, the transformed file "outputfile" should be in his workspace. The next example shows how to make an SPSS file from the sample CODATA file.

<p>Start with 'cotools' to invoke the transformation tools</p>	<pre> <b>\$ cotools</b> For CODATA tools documentation, type:     coman coman For latest test version, type:     cotelst  <b>\$ cospss &lt;codata.dat &gt;codata.sps</b> <b>\$ type codata.sps</b> run name      create spss variable list  AAFIPSST ABFIPS00 ACSTUBGE ADOCCDBCO AECCDBCO                 AFOCCDBCO AGCCDBCO AHCCDBCO AICCDBCO AJCCDBCO                 AKCCDBCO ALCCDBCO AMTAB31 ANTAB61 AONEWHOU                 APNEWHOU var labels    AAFIPSST, var labels    ABFIPS00, var labels    ACSTUBGE, var labels    ADOCCDBCO, Population 1940 comment      # var labels    AECCDBCO, Population 1950 comment      # var labels    AFOCCDBCO, Population 1960 comment      # var labels    AGCCDBCO, Population 1970 comment      # var labels    AHCCDBCO, Land Area in Square Miles 1940 comment      # var labels    #Square Mile comment      # var labels    #Square Mile Area var labels    AICCCDBCO, Housing Units 1940 comment      # var labels    #1940 # ng Un var labels    AJCCDBCO, Housing Units 1950 comment      # var labels    #1950 # ng Un var labels    AKCCDBCO, Housing Units 1960 comment      # var labels    #1960 # ng Un var labels    ALCCDBCO, Housing Units 1970 comment      # var labels    #1970 # ng Un var labels    AMTAB31 , 100-Percent #100-Percent C#100-Percent C comment      # #100-Percent Count of Person #100-Percent Count of Person Percent Count of Persons#100-Perc </pre>
--	---

	<pre> var labels      ANTAB61 , 100-Per# (Incl# Migrat#100-Per# Units comment      # (Including Vacant Seasonal and# nits# (Including Vacant Seaso t of Housing Uni Units# (Including Vacant S unt of Housing var labels      AONEWHOU, newhou81 comment      # var labels      APNEWHOU, newhou82 comment      # input medium   card n of cases     3 missing values  AAFIPSST("-9")/                 ABFIPSCO("-9")/                 ACSTUBGE("-9")/                 ADOCCDBCO( -9 )/                 AECCDBCO( -9 )/                 AFCCDBCO( -9 )/                 AGCCDBCO( -9 )/                 AHCCDBCO( -9 )/                 AICCDBCO( -9 )/                 AJCCDBCO( -9 )/                 AKCCDBCO( -9 )/                 ALCCDBCO( -9 )/                 AMTAB31( -9 )/                 ANTAB61( -9 )/                 AONEWHOU( -9 )/                 APNEWHOU( -9 ) print formats   AAFIPSST(A)/                 ABFIPSCO(A)/                 ACSTUBGE(A)/                 ADOCCDBCO(3)/                 AECCDBCO(3)/                 AFCCDBCO(3)/                 AGCCDBCO(3)/                 AHCCDBCO(3)/                 AICCDBCO(3)/                 AJCCDBCO(3)/                 AKCCDBCO(3)/                 ALCCDBCO(3)/                 AMTAB31 (3)/                 ANTAB61 (3)/                 AONEWHOU(3)/                 APNEWHOU(3) input format    freefield condescriptive all statistics      all read :input data   '20', '087', 'KS J', 12718, 11084, 11252, 11945, 549, 4027, 3839, 3862, 4055, 15207, 5817, 40,   40   '20', '139', 'KS O', 15118, 12811, 12886, 13352, 721, 5007, 4462, 4788, 4898, 15319, 6152, -9,   -9   '20', '177', 'KS S', 91247, 105418, 141286, 155322, 545, 28009, 33917, 46015, 51929, 154916,   64446, 360, 361 finish \$</pre>
--	---

### Creating a DIF file

In a similar fashion, use of the *CODIF* tool will transform a codata.dat work file into the microcomputer spreadsheet interchange format known as "DIF." The DIF format is somewhat arcane and space consuming, and hence not all of it is shown in this document. Files such as this have been tested by loading them into the LOTUS 1-2-3 spreadsheet package.

```
$ codif -h <codata.dat >codata.dif
$ type codata.dif
TABLE
0,1
"CODATA"
VECTORS
0,16
""
TUPLES
0,8
""
LABEL
1,1
"DE=FIPS.STATE"
LABEL
2,1
"DE=FIPS.COUNTY"
LABEL
3,1
"DE=STUB.GEO"
LABEL
4,1
"DE=CCDBC0012"
LABEL
5,1
"DE=CCDBC0013"
LABEL
6,1
"DE=CCDBC0014"
LABEL
7,1
"DE=CCDBC0015"
LABEL
8,1
"DE=CCDBC0001"
LABEL
9,1
"DE=CCDBC0283"
LABEL
10,1
"DE=CCDBC0284"
LABEL
11,1
"DE=CCDBC0285"
LABEL
12,1
"DE=CCDBC0286"
LABEL
13,1
"DE=TAB3(1)"
LABEL
14,1
"DE=TAB6(1)"
```

The **-h** flag in the **codif** command line serves to make the SEEDIS headers into data lines which will be displayed as column headers in the LOTUS spreadsheet.

LABEL  
15,1  
"DE=NEWHOU81"  
LABEL  
16,1  
"DE=NEWHOU82"  
DATA  
0,0  
"  
-1,0  
BOT  
1,0  
"  
1,0  
"  
1,0  
"  
1,0  
"#Population 1940#"  
1,0  
"#Population 1950#"  
1,0  
"#Population 1960#"  
1,0  
"#Population 1970#"  
1,0  
"#Land Area in#"  
1,0  
"#Housing Units#"  
1,0  
"#Housing Units#"  
1,0  
"#Housing Units#"  
1,0  
"#Housing Units#"  
1,0  
"#100-Percent Count of Persons#"  
1,0  
"#100-Percent Count of Housing Units#"  
1,0  
"#newhou81#"  
1,0  
"#newhou82#"  
-1,0  
.....  
.....  
.....  
1,0  
"#Square Miles#"  
1,0  
"#1940#"  
1,0  
"#1950#"  
1,0  
"#1960#"  
1,0  
"#1970#"  
1,0  
"#100-Percent Count of Persons#"  
1,0  
"# (Including Vacant Seasonal and#"  
.....  
.....

Some  
definition  
not shown

	BOT
Beginning of actual data	1,0
	"20"
	1,0
	"087"
	1,0
	"KS JEFFERSON"
	0,12718
	V
	0,11084
	V
	0,11252
	V
	0,11845
	V
	0,549
	V
	0,4027
Jefferson County data	V
	0,3839
	V
	0,3862
	V
	0,4055
	V
	0,15207
	V
	0,5817
	V
	0,40
	V
	0,40
	V
	-1,0
	BOT
	1,0
	"20"
	1,0
	"139"
	1,0
	"KS OSAGE"
	0,15118
	V
	0,12811
	V
	0,12886
	V
	0,13352
	V
	0,721
	V
	0,5007
	V
Osage County data	0,4462
	V
	0,4788
	V
	0,4898
	V
	0,15319
	V
	0,6152
	V
	0,-9
	V
	0,-9
	V
	-1,0

<b>Shawnee County data</b>	BOT
	1,0
	"20"
	1,0
	"177"
	1,0
	"KS SHAWNEE"
	0,91247
	V
	0,105418
	V
	0,141288
	V
	0,155322
	V
	0,545
	V
	0,28009
	V
	0,33917
	V
	0,46015
	V
	0,51929
	V
	0,154916
	V
	0,64446
	V
	0,360
	V
	0,381
	V
	-1,0
	EOD

### Using KERMIT to transfer SEEDIS data files

This section shows how the KERMIT file transfer program can be used to send SEEDIS data files from a SEEDIS VAX computer to a personal computer such as the IBM-PC. KERMIT is a public domain error-correcting, file transfer program developed by the Columbia University Computing Facility. This means that data files can be sent across noisy telephone lines and errors in data receiving are identified and the data is re-sent until it is received correctly on the other end. Another way of capturing SEEDIS data file might be to use the logging facility of a commercially available software package such as CROSSTALK. However, the logging may also capture extra characters which derive from telephone line noise.

For further information on KERMIT, read the June and July 1984 issues of BYTE magazine.

User invokes KERMIT from drive A of his PC, sets baud rate to desired speed, dials to SEEDIS computer	<pre>A&gt; kermit IBM-PC Kermit-MS ver 2.28 Type ? for help Kermit-MS&gt; set baud 1200 Kermit-MS&gt; connect [Connecting to host, type Control-[C to return to PC Baud rate is 1200, connecting over port COM1] (carriage return)  LBLH - CSR VAX/VMS  Username: ARMYCORPS Password:  Welcome to LBLH - CSR VMS V4.2 VAX 11/780  Last interactive login on Wednesday, 4-DEC-1985 12:51 Last non-interactive login on Wednesday, 20-NOV-1985 13:18     1 failure since last successful login ***** System Shutdown: None scheduled ***** Disk usage for [212,027] 11739 used / 20000 maximum You have Software Tools mail - use 'msg' to read 9/25/85 1982 Census of Agriculture ----- A new database (code CZ) has been installed in SEEDIS. It provides the 1982 U.S. Census of Agriculture with many comparable items from the 1978 agricultural census. Over 3,500 items are available for each STATE and COUNTY in the U.S. It requires the mounting of the disk pack CENSAGR001. There are some known spelling errors in the data dictionary which will be corrected soon.  7/10/85 1983 County &amp; City Data Book ----- The 1983 County and City Data Book has been installed in SEEDIS. The county portion is database code CX, currently available at COUNTY80 level of geography, and includes information from the 1978 Census of Agriculture and the 1977 Business and Government censuses. The city portion (for cities with population greater than 25,000) has different data and hence is given a different data base code CY. It is available at the PLACE80 level of geography. For further information on either database, contact Fred Gey (FTS 451-6208) or Esther Schroeder (FTS 451-5306)  If you have questions or problems using SEEDIS or want to obtain printed output, please call Ilona Hinowski or Ann Gerken at (415) 642-6571 or (FTS) 415-642-6571. What's your last name? gey Thank you gey \$</pre>
---	--

At this point the user can perform any operations he wishes to on the VAX computer, including invoking SEEDIS and retrieving data, converting work files to SPSS, DIF files, etc. When the user wants to send these files to his microcomputer, another KERMIT process on the VAX must be invoked. For reliable file transfer, there must be two KERMIT programs -- one on each machine -- which "talk" to each other according to a "protocol" in which each package of data sent is checked and acknowledged as having been received without errors. KERMIT on the VAX is initiated with the command (after the \$ prompt):

**mcr kermit**

KERMIT on the VAX responds with the prompt

**Kermit-32>**

which is what distinguishes it from the IBM-PC version of KERMIT (the latter uses the prompt Kermit-MS>). Once the user gets the "Kermit-32>" prompt he can issue the "send" command to transmit a file.

User sends all CODATA files (* means all)	<b>\$ mcr kermit</b> VMS Kermit-32 version 3.0.051 Default terminal for transfers is .TX37. <b>Kermit-32&gt;send codata.*</b>
--	--

Once the command to send files has been given to KERMIT32, the user must notify the KERMIT on his microcomputer to receive the data. This is done by an unusual sequence of characters (the **CTRL** key and the **]** (right bracket) key simultaneously, followed by the **c** key). This sequence is *not echoed* back to the user.

When the prompt Kermit-MS> is given, the user can start data transfer by typing the single word "receive." At this point the user's microcomputer will clear the screen and begin receiving data, informing the user of the progress in sending data "as it happens." When all data files have been received, the Kermit-MS> prompt will appear again, and the user should re-open his connection to the VAX by typing "connect."

typed in but not echoed	<b>CTRL/] C</b> [back at macro] <b>Kermit-MS&gt; receive</b> CUCCA IBM-PC Kermit-MS ver 1.20  Number of packets 57 Number of retries 0 File name CODATA.DIF  <b>Kermit-MS&gt; connect</b>
----------------------------	--

At this point the user can quit from the VAX version of KERMIT by typing "exit". He can then log out and return to his PC and exit from the PC version of KERMIT. The user is then ready to use his files locally on his pc.

	<pre>[Connecting to host, type Control-]C to return to PC Baud rate is 1200, connecting over port COM1] CR Kermit-32&gt; exit s lo ARMYCORPS    logged out at  5-SEP-1984 16:45:05.81 CTRL/] C [back at micro] Kermit-MS&gt; exit A&gt;</pre>
--	---

## SMALL AREA DATA - Cities and Towns

## Introduction to Small Area Data

Often, in geographically-oriented studies, data summarized at the county level is too aggregate for projects having localized social and environmental impact. SEEDIS offers the capability of retrieving background profiles and extracting data elements for a number of geographical units *below* the county in size. In many cases the only data available for sub-county areas is that supplied by the Census Bureau, primarily from the decennial censuses. Thus data records are identified by geographic units defined by the Census Bureau (minor civil divisions (MCD), enumeration districts, places, census tracts). Usually the exact identification of these areas requires the use of the Census Map Series for the local areas being studied. The following is a brief summary of descriptions of areas for which census data may be retrieved from SEEDIS.

## PLACE AND MINOR CIVIL DIVISION LEVELS

Level	Geographic Level Description	Year	Scope
PLACE80	Places, Census	1980	US
CYPL80	COUNTY80/PLACE80 pieces	1980	US
MCD80	Minor Civil Divisions	1980	US
	Census County Divisions		
MCDPL80	MCD80/PLACE80 pieces	1980	US

## SMALLER SUBCOUNTY LEVELS

Level	Geographic Level Description	Year	Scope
EDBG80PT2	Enum Dist & Block Group pieces	1980	US
TRACT80	Census Tracts	1980	US
TRACT80PT	MCD80/PLACE80/TRACT80 pieces	1980	US

A **place** is a city or town, either incorporated or unincorporated, for which the Census Bureau has created a definition and summarized data. These definitions have changed over time (particularly from 1970 to 1980) and so SEEDIS designates the 1980 definitions of places with the geographic level **PLACE80**. There are approximately 50,000 of these defined areas (with 1 or more 1980 population) for which the Census Bureau tabulated data from the 1980 Decennial Census. SEEDIS has installed both STF1 and STF3 data for these places through the use of its *cache* system (described further in Appendix B).

In the following example the user accesses information for towns in the Topeka SMSA which were identified in the Census Bureau construction reports. The level of geography chosen is place80.

user requests seedis	\$ seedis	<p>WELCOME TO SEEDIS, VERSION 1.4</p> <p>At any point in Seedis, you can type the following global commands to get these services:</p> <table> <thead> <tr> <th>Input</th><th>Description</th></tr> </thead> <tbody> <tr> <td>?</td><td>list and describe commands in this menu</td></tr> <tr> <td>help</td><td>describe the purpose of this menu's commands</td></tr> <tr> <td>show</td><td>list and explain items to be selected</td></tr> <tr> <td>review</td><td>list current session status and history</td></tr> <tr> <td>cancel</td><td>delete current selections (depends upon context)</td></tr> <tr> <td>quit</td><td>return to previous menu</td></tr> <tr> <td>*&lt;comment&gt;</td><td>enter a comment in Seedis log</td></tr> <tr> <td>control-T</td><td>check process (CPU = time in central processing unit)</td></tr> <tr> <td>control-Y</td><td>abort process, return to operating system</td></tr> </tbody> </table> <p>Please stand by. Your menu prompt will be here shortly.</p>	Input	Description	?	list and describe commands in this menu	help	describe the purpose of this menu's commands	show	list and explain items to be selected	review	list current session status and history	cancel	delete current selections (depends upon context)	quit	return to previous menu	*<comment>	enter a comment in Seedis log	control-T	check process (CPU = time in central processing unit)	control-Y	abort process, return to operating system																								
Input	Description																																													
?	list and describe commands in this menu																																													
help	describe the purpose of this menu's commands																																													
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control-T	check process (CPU = time in central processing unit)																																													
control-Y	abort process, return to operating system																																													
: area	SEEDIS: area, data, display, profile																																													
: place80	AREA: nation, state, county, county80, <other level>																																													
: kansas	AREA: <state>, us, us+, fr<nn>																																													
: mclouth,meriden,nortonville,oskaloosa,ozawkie,valley falls	KANSAS																																													
	AREA: <place(s)>, all																																													
	MCLOUTH CITY																																													
	MERIDEN CITY																																													
	NORTONVILLE CITY																																													
	OSKALOOSA CITY																																													
	OZAWKIE CITY																																													
	VALLEY FALLS CITY																																													
: auburn,rossville,silver lake,topeka	AREA: <place(s)>, all																																													
	AUBURN CITY																																													
	ROSSVILLE CITY																																													
	SILVER LAKE CITY																																													
	TOPEKA CITY																																													
: quit	AREA: <place(s)>, all																																													
: quit	AREA: <state>, us, us+, fr<nn>																																													
: data	SEEDIS: area, data, display, profile																																													
: show	PLACE80 level data extraction uses disk cache.																																													
	DATA: <database code>, extract, newdata, query, mode																																													
	DATABASE CODES FOR PLACE80 LEVEL																																													
	<table> <thead> <tr> <th>Code</th> <th>Database Title</th> <th>Scope</th> <th>Vars</th> <th>Access</th> </tr> </thead> <tbody> <tr> <td>BX</td> <td>1980 Population by Race</td> <td>US</td> <td>11</td> <td>cache</td> </tr> <tr> <td>CA</td> <td>1980 Census: Summary Tape File 1</td> <td>US</td> <td>342</td> <td>cache</td> </tr> <tr> <td>CF</td> <td>1980 Census: Summary Tape File 3</td> <td>US</td> <td>1153</td> <td>cache</td> </tr> <tr> <td>CG</td> <td>1980 Census: Equal Emp Opportunity</td> <td>US</td> <td>13188</td> <td>cache</td> </tr> <tr> <td>CL</td> <td>1980 Census: STF4 Pop Record A</td> <td>50ST</td> <td>1024</td> <td>cache</td> </tr> <tr> <td>CM</td> <td>1980 Census: STF4 Pop Record B</td> <td>NONE</td> <td>77805</td> <td>cache</td> </tr> <tr> <td>CN</td> <td>1980 Census: STF4 Hous Record A</td> <td>12ST</td> <td>3905</td> <td>cache</td> </tr> <tr> <td>CO</td> <td>1980 Census: STF4 Hous Record B</td> <td>NONE</td> <td>61503</td> <td>cache</td> </tr> </tbody> </table>	Code	Database Title	Scope	Vars	Access	BX	1980 Population by Race	US	11	cache	CA	1980 Census: Summary Tape File 1	US	342	cache	CF	1980 Census: Summary Tape File 3	US	1153	cache	CG	1980 Census: Equal Emp Opportunity	US	13188	cache	CL	1980 Census: STF4 Pop Record A	50ST	1024	cache	CM	1980 Census: STF4 Pop Record B	NONE	77805	cache	CN	1980 Census: STF4 Hous Record A	12ST	3905	cache	CO	1980 Census: STF4 Hous Record B	NONE	61503	cache
Code	Database Title	Scope	Vars	Access																																										
BX	1980 Population by Race	US	11	cache																																										
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CN	1980 Census: STF4 Hous Record A	12ST	3905	cache																																										
CO	1980 Census: STF4 Hous Record B	NONE	61503	cache																																										

user chooses STF1, database code CA	ca	DATA: <database code>, extract, newdata, query, mode:
		1STF1 1980 CENSUS: SUMMARY TAPE FILE 1
		Database Code CA
		Geographic Levels CD97 CNTY7080 MC780 PLAC780 TRAC780PT COUNTY CYPL80 MCDPL80 PRSP83 STATE COUNTY80 EDBG80PT2 NATION80 CENREG CENDIV SCSA81 STSCSA81 SMSA81 STSMSA81 UA80 STUA80 FED
		Geographic Scope US (only 32 states for level EDBG80PT2)
		Directory Authors L. Wong, I. Ebinowski, D. Merrill, A. Marcus, E. Schroeder Lawrence Berkeley Laboratory, Berkeley, CA
		Data Source Census of Population and Housing, 1980, Census Bureau
		Last Update 7 August 1984
		Documentation \$ copy disk\$seedis004:[seedis.seedict]stf1.sof *.* \$ @sy\$seedis:[seedis.docs]off stf1 print
		DATA: <line letter(s)>, table, <page number>, CR
user requests table of contents	table	CA 1980 Census: STF1 Page 2 of 325
		PAGE TABLE OF CONTENTS
		1 Title Page
		2 Table of Contents
		8 Subject Matter Description
		9 Known Errors and Omissions
		16 Table Titles by Universe
		24 Data Elements
		25 Table Descriptions
		25 Tab1: Urban and Rural (3) 25 Tab2: Families (1) 25 Tab3: Households (1) 26 Tab4: Urban and Rural (3) 26 Tab5: Occupancy Status (3) 27 Tab6: Sex (2) 27 Tab7: Race (15) 29 Tab8: Spanish Origin (5) 29 Tab9: Race (5) 30 Tab10: Sex (2) by Age (26)



<b>retrieves data selected SEEDIS reports number and location of necessary files</b>  <b>data are extracted and ready to be displayed</b>  <b>requests list of available device types</b>  <b>other is best choice for paper terminals</b>  <b>selects option for tabular listing</b>	<b>: extract</b> DATA: <database code>, extract, newdata, query, model Checking data availability. 4 files are required. 4 files are in disk cache.	
	<b>: quit</b> DATA: <database code>, extract, newdata, query, model	<b>: display</b> SEEDIS, area, data, display, profile
	<b>: show</b> Output Device	Description <hr/> 4010 Tektronix 4010 or 4012 terminal 4014 Tektronix 4014 or 4016 terminal (left margin = -.3) 4027 Tektronix 4025 or 4027 terminal 4027! Tektronix 4027 terminal, shading by patterns admrg LSI ADM3A terminal with retro-graphics board vt125 DEC VT125 terminal (left margin = -.6) other other generic non-graphic terminal ramtek Ramtek 9400 Video Frame Buffer basic color selection ramtek2 Ramtek 9400 Video Frame Buffer enhanced color selection ramtek3 Ramtek 9400 Video Frame Buffer most detailed color selection isi ISI Video Frame Buffer varian Varian printer/plotter printer line printer intermediate coded intermediate file, for miscellaneous devices dc 31x20 mm color slide (left margin = -.48) dl 75x80 mm color transparency (left margin = -.25) ds 77x82 mm Polaroid color print (left margin = 0)
	<b>: other</b> <b>: list</b> <b>: type</b>	DISPLAY/TERMINAL: <graphic output device> DISPLAY: chart, list, map, plot, device DISPLAY/LIST: page, type, print

The SEEDIS caching process can vary from 5-15 minutes for data extraction, to overnight for files not found in the disk cache and which must be fetched from computer tape. Appendix B illustrates procedures for leaving SEEDIS when the caching operating begins, and returning after your data has been retrieved.

		FIPS.STATE	FIPS.PLACE80
	KS AUBURN CITY	20	0157
	KS MCLOUTH CITY	20	1740
	KS MERIDEN CITY	20	1855
	KS NORTONVILLE CITY	20	2080
	KS OSKALOOSA CITY	20	2170
	KS OZAWKIE CITY	20	2202
	KS ROSSVILLE CITY	20	2485
	KS SILVER LAKE CITY	20	2640
	KS TOPEKA CITY	20	2785
	KS VALLEY FALLS CITY	20	2860
SEEDIS automatically formats the report with column titles		TAB1(1)	TAB4(1)
		Urban-Rural Status Total	Urban-Rural Status Housing Persons Units Including
	KS AUBURN CITY	890	288
	KS MCLOUTH CITY	700	305
	KS MERIDEN CITY	707	289
	KS NORTONVILLE CITY	692	270
	KS OSKALOOSA CITY	1092	425
	KS OZAWKIE CITY	472	183
	KS ROSSVILLE CITY	1045	366
	KS SILVER LAKE CITY	1350	480
	KS TOPEKA CITY	115266	50371
	KS VALLEY FALLS CITY	1189	513
DISPLAY/LIST: page, type, print			
:	quit		
DISPLAY: chart, list, map, plot, device			
:	quit		
SEEDIS: area, data, display, profile			
:	quit		
:	\$		

## APPENDIX A

### SEEDIS PROFILE EXAMPLES

1977 CITY COUNTY DATA BOOK FAMILIES, INCOME AND HOUSING PROFILE KS JEFFERSON				
FAMILY, INCOME				
Number of Families	1950	1960	1970	
Percent Low Income 1/	3,080	3,011	3,187	
Median Family Income (\$)	50.4%	33.7%	14.4%	
	1,983	4,287	8,346	
PUBLIC ASSISTANCE RECIPIENTS				
AFDC	1972	1976		
AFDC children	89	270		
Average Monthly Payments/Fam (\$)		182		
	185	246		
SSI				
Total		145		
Aged		84		
Payments Total/Mo. (\$000)		[2]		
HOUSING				
Total Housing Units	1940	1950	1960	1970
Percent built since last census	4,027	3,839	3,862	4,055
Occupied units		5.7%	12.6%	24.8%
Owner occupied	3,748	3,530	3,473	3,771
Median/Mean occupants	52.2%	69.6%	76.0%	79.6%
Median value owner-occupied (\$)			5,800	11,397
Median rent (\$)			60	87
mobility (% moved into in last 5 years)				45.0%
CONSTRUCTION (1975-1976)				
New private units authorized		184		
% single units		96.3		
% 5+ units		0.0		
Total permit value (\$000)		4,145		
Average per unit (\$/unit)		25,274		

1/ low income defined as under \$2000 for 1950 and as under \$3000 for 1960 and 1970  
[n] denotes a suppression flag of value n

		1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS JEFFERSON				
		1954	1958	1963	1967	1972
Manufacturing establishments	6	11	11	12	13	
payroll (\$000)	409	401	257	300	[2]	
value add (\$000)	436	860	510	600	[2]	
new cap exp (\$000)	28	0	16	100	[2]	
employees production workers	118	98	66	100	[2]	
	97	75	51	0	[2]	
Retail Trade establishments	136	134	126	109	145	
sales (\$000)	7,884	8,097	8,788	9,549	12,290	
payroll (\$000)	545	559	678	780	794	
employees	283	261	237	228	253	
Selected Services establishments	44	49	53	71	79	
receipts (\$000)	222	422	435	567	1,214	
payroll (\$000)	24	36	48	64	182	
employees	18	21	23	28	58	
Wholesale Trade establishments	17	18	10	7	17	
sales (\$000)	0	2,295	2,291	2,787	8,200	
payroll (\$000)	0	131	68	103	438	
employees	0	32	19	20	66	
Mineral Industries establishments		2	2	4	1	
payroll (\$000)		0	0	[1]	[1]	
ship val (\$000)	0	0	0	[1]	[1]	
value add (\$000)			0		[1]	
cap exp (\$000)				0		
employees		0	0	[1]	[1]	

[n] denotes a suppression flag of value n

**1977 CITY COUNTY DATA BOOK  
FAMILIES, INCOME AND HOUSING PROFILE  
KS OSAGE**

**FAMILY, INCOME**

	1950	1960	1970
Number of Families	3,525	3,549	3,630
Percent Low Income 1/	46.5%	37.5%	15.7%
Median Family Income (\$)	2,104	3,939	7,553

**PUBLIC ASSISTANCE RECIPIENTS**

	1972	1976
AFDC	118	328
AFDC children		235
Average Monthly Payments/Fam. (\$)	114	225
SSI		
Total		149
Aged		96
Payments Total/Mo. (\$000)		[2]

**HOUSING**

	1940	1950	1960	1970
Total Housing Units	5,007	4,462	4,788	4,898
Percent built since last census		3.7%	10.4%	17.5%
Occupied units	4,625	4,006	4,227	4,475
Owner occupied	58.7%	75.1%	76.6%	79.6%
Median/Mean occupants	2.8nd	2.5nd	3.0m	2.9m
Median value owner-occupied (\$)			5,100	7,709
Median rent (\$)			59	89
mobility (% moved into in last 5 years)				43.4%

**CONSTRUCTION (1975-1976)**

New private units authorized	113
% single units	69.9
% 5+ units	26.5
Total permit value (\$000)	2,317
Average per unit (\$/unit)	20,504

1/ Low income defined as under \$2000 for 1960 and as under \$3000 for 1960 and 1970  
[n] denotes a suppression flag or value n

		1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS OSAGE				
		1954	1958	1963	1967	1972
Manufacturing	establishments	10	11	16	13	10
payroll (\$000)		108	106	166	[2]	[2]
value add (\$000)		212	94	1,387	[2]	[2]
new cap exp (\$000)		8	13	38	[2]	[2]
employees	production workers	62	48	191	[2]	[2]
		46	39	164	[2]	[2]
Retail Trade	establishments	210	178	186	166	176
sales (\$000)		10,218	11,051	12,835	14,250	18,179
payroll (\$000)		612	744	992	1,229	1,612
employees		295	353	371	407	406
Selected Services	establishments	69	75	90	98	105
receipts (\$000)		420	678	858	994	1,504
payroll (\$000)		31	94	73	112	206
employees		32	61	31	36	50
Wholesale Trade	establishments	19	23	20	17	23
sales (\$000)		5,173	5,869	8,779	5,072	16,200
payroll (\$000)		96	129	176	212	886
employees		48	41	69	43	137
Mineral Industries	establishments		5	6	0	0
payroll (\$000)			0	0	0	0
ship val (\$000)		407	0	0	0	0
value add (\$000)				0		0
cap exp (\$000)					0	
employees			0	0	0	0

[n] denotes a suppression flag of value n

1977 CITY COUNTY DATA BOOK  
 FAMILIES, INCOME AND HOUSING PROFILE  
 KS SHAWNEE

FAMILY INCOME

	1950	1960	1970
Number of Families	28,135	36,369	39,516
Percent Low Income 1/	21.1%	15.9%	7.4%
Median Family Income (\$)	3,255	5,931	9,658

PUBLIC ASSISTANCE RECIPIENTS

	1972	1978
AFDC	5,215	6,897
AFDC children		4,935
Average Monthly Payments/Fam (\$)	172	242
SSI		
Total		1,710
Aged		591
Payments Total/Mo. (\$000)		124

HOUSING

	1940	1950	1960	1970
Total Housing Units	28,009	33,917	46,015	51,929
Percent built since last census		16.6%	31.1%	25.7%
Occupied units	26,378	32,774	43,625	49,986
Owner occupied	49.6%	65.4%	66.5%	64.3%
Median/Mean occupants	2.8nd	2.7nd	3.1m	3.1m
Median value owner-occupied (\$)			11,600	14,911
Median rent: (\$)			76	109
mobility (% moved into in last 5 years)				55.7%

CONSTRUCTION (1975-1976)

New private units authorized	1,930
% single units	76.8
% 5+ units	10.8
Total permit value (\$000)	60,199
Average per unit (\$/unit)	31,181

1/ Low income defined as under \$2000 for 1950 and as under \$3000 for 1960 and 1970

		1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE KS SHAWNEE				
		1954	1958	1963	1967	1972
Manufacturing	establishments	138	137	135	141	134
payroll (\$000)		23,711	29,642	40,254	58,200	86,000
value add (\$000)		56,929	74,488	100,662	168,900	231,100
new cap exp (\$000)		3,138	6,272	8,515	16,000	[2]
employees	production workers	6,010	6,185	6,588	8,300	9,200
		4,243	4,209	4,832	6,200	7,000
Retail Trade	establishments	1,295	1,274	1,186	1,368	1,628
sales (\$000)		143,518	169,294	196,024	249,001	396,880
payroll (\$000)		17,156	19,890	24,203	30,182	49,287
employees		6,920	7,570	7,517	8,483	10,444
Selected Services	establishments	562	780	722	858	1,320
receipts (\$000)		14,714	20,145	26,858	35,093	70,924
payroll (\$000)		4,396	5,680	7,651	11,211	21,270
employees		2,030	2,407	2,380	3,289	4,245
Wholesale Trade	establishments	180	193	229	214	236
sales (\$000)		110,136	141,776	208,112	231,368	363,100
payroll (\$000)		7,928	9,682	14,001	17,397	27,566
employees		2,001	2,108	2,580	2,640	2,890
Mineral Industries	establishments		11	14	8	17
payroll (\$000)			271	492	[1]	[1]
ship val (\$000)		740	819	1,829	[1]	[1]
value add (\$000)				1,406		[1]
cap exp (\$000)					139	
employees			58	103	[1]	[1]

[n] denotes a suppression flag or value n

1977 CITY COUNTY DATA BOOK BUSINESS AND INDUSTRY PROFILE AGGREGATION OF ALL AREAS RETRIEVED					
	1954	1958	1963	1967	1972
Manufacturing establishments	154	159	162	166	157
payroll (\$000)	24,228	30,148	40,677	58,500*	86,000*
value add (\$000)	57,577	75,442	102,559	169,500*	231,100*
new cap exp (\$000)	3,174	6,285	8,569	18,100*	*
employees production workers	6,191	6,332	6,845	8,400*	9,200*
	4,386	4,323	5,047	6,200*	7,000*
Retail Trade establishments	1,641	1,586	1,498	1,643	1,949
sales (\$000)	161,618	188,442	217,647	272,800	428,349
payroll (\$000)	18,313	21,193	25,873	32,171	51,693
employees	7,498	8,184	8,125	9,118	11,103
Selected Services establishments	875	904	865	1,027	1,504
receipts (\$000)	15,356	21,245	28,151	36,654	73,642
payroll (\$000)	4,451	5,810	7,772	11,387	21,658
employees	2,080	2,489	2,434	3,353	4,353
Wholesale Trade establishments	216	234	259	238	276
sales (\$000)	115,309	149,940	219,182	239,237	387,500
payroll (\$000)	8,024	9,942	14,245	17,712	28,890
employees	2,049	2,181	2,668	2,703	3,093
Mineral Industries establishments		18	22	12	18
payroll (\$000)		271	492	*	*
ship val (\$000)	1,147	819	1,829	*	*
value add (\$000)			1,406		*
cap exp (\$000)				139	
employees		58	103	*	*
* aggregation includes only non-suppressed data					
The following suppression flags may be encountered in the PROFILES where data is taken from the 1977 CITY COUNTY DATA BOOK The suppression flags are					
[1]	no data - not available				
[2]	no data - suppression for confidentiality purposes				
[3]	no data - not applicable				
[6]	no data - geographic unit not incorporated in the item to which this data refers				
[7]	no data - data suppressed for security or statistical reasons - see page 100				

1980 Census STF1  
 SEEDIS Run on 10 Jan 1985  
 Lawrence Berkeley Laboratory

Report 1A. Population  
 and Housing Part 1  
 Jefferson County  
 Kansas

## Population by Race, Origin, Marital Status

Universe. Persons	Number	Percent
Population by Race, Including Hispanics	15,207	100.0
White	14,997	98.6
Black	51	0.3
Native American	110	0.7
American Indian	110	0.7
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	21	0.1
Japanese	4	-
Chinese	1	-
Filipino	1	-
Korean	3	-
Asian Indian	1	-
Vietnamese	11	0.1
Hawaiian	-	-
Guamanian	-	-
Samoa	-	-
Remaining Races (3)	28	0.2
Population by Race, excluding Hispanics	15,127	100.0
White, not Hispanic	14,937	98.7
Black, not Hispanic	51	0.3
Nat Amer and Asian/Pac Isl, not Hisp (4)	130	0.9
Remaining Races, not Hispanic (3)	9	0.1
Population by Origin, including all races	15,207	100.0
Hispanic	80	0.5
Mexican	59	0.4
Puerto Rican	-	-
Cuban	-	-
Other Hispanic	21	0.1
Hispanic by Race	80	100.0
White	60	75.0
Black	-	-
Native American, and Asian/Pac Isl (4)	1	1.3
Remaining Races (3)	19	23.8
Universe. Persons 15 Years and Over	Number	Percent
Population by Marital Status	11,625	100.0
Married, including Separated	7,990	68.7
Never-Married	2,249	19.3
Divorced and Widowed	1,386	11.9

## Housing Characteristics

Universe. Housing Units	Number	Percent
Total Housing Units (2)	5,817	
One Year-Round Housing Units	5,698	100.0
Condominium Units	12	0.2
Non-Family Housing for exclusive (13)	188	3.3
Occupied Housing Units (1)	5,297	93.0
Median Persons per Unit (7)	2	
Owner Vacancy Rate	1.7	
Renter Vacancy Rate	11.5	

Population, Household, Housing Characteristics Report 1a:Part II 1980 Census, STF 1 SEEDIS run date 10 Jan 1985 Lawrence Bekeley Laboratory					
Population and Household Characteristics					
Universe: Persons	Male	Percent	Female	Percent	
Population by Age/Sex	7,584	100.0	7,643	100.0	
0-4 Years	568	7.5	485	6.3	
5-13 Years	1,167	15.4	1,082	14.2	
14-15 Years	303	4.0	278	3.6	
16 Years and Over	5,526	73	5,798	76	
16-17 Years	325	4.3	337	4.4	
18-19 Years	230	3.0	194	2.5	
20-21 Years	170	2.2	183	2.4	
22-24 Years	282	3.7	287	3.8	
25-34 Years	1,105	14.6	1,141	14.9	
35-44 Years	937	12.4	904	11.8	
45-54 Years	781	10.3	735	9.6	
55-64 Years	741	9.8	705	10.4	
65-74 Years	574	7.6	608	8.0	
75 Years and Over	381	5.0	614	8.0	
Median Age in Years	31.8		33.7		
Universe: Households		Number		Percent	
Total Households (1)		5,297		100.0	
1 Person Household		972		18.4	
Male Householder		355		6.7	
Female Householder		617		11.8	
2 or More Person Household		4,325		81.6	
Married-couple Family		3,889		73.4	
Other Family		369		7.0	
Male Householder, no Wife Present		110		2.1	
Female Householder, no Husband Present		259		4.9	
Nonfamily Households		67		1.3	
Male Householder		47		0.9	
Female Householder		20		0.4	
Total Households w/ Persons Age 65+ (7)		1,441		100.0	
1 Person Household		564		39.1	
2 or More Person Household		877		60.9	
Total Households w/ Persons Under Age 18		2,265		100.0	
Married-Couple Family		2,040		90.1	
Other Family		218		9.6	
Male Householder, no Wife Present		48		2.1	
Female Householder, no Husband Present		170		7.5	
Nonfamily Households		?		0.3	
Housing Characteristics					
Universe: Occupied Housing Units		Number		Percent	
Occupied Housing Units		5,297		100.0	
With 1.01 or more Persons per Room		127		2.4	
Owner Occupied		4,472		84.4	
Jack Complete Planning for exclusive (13)		99		2.2	
Median Value in B. Acs (13)		36000.0			
Renter Occupied		825		15.6	
Jack Complete Planning for exclusive (13)		36		0	
Median Contract Rent in B. Acs (13)		126.0			

1980 Census STP1  
 SEEDIS Run on 10 Jan 1985  
 Lawrence Berkeley Laboratory

Report 1A: Population  
 and Housing Part I  
 Osage County  
 Kansas

Population by Race, Origin, Marital Status		
Universe: Persons	Number	Percent
Population by Race, including Hispanics	15,319	100.0
White	15,154	98.9
Black	18	0.1
Native American	47	0.3
American Indian	47	0.3
Eskimo	-	-
Aleut	-	-
Asian and Pacific Islander (4)	26	0.2
Japanese	5	-
Chinese	1	-
Filipino	9	0.1
Korean	3	-
Asian Indian	6	-
Vietnamese	1	-
Hawaiian	1	-
Guamanian	-	-
Samoa	-	-
Remaining Races (3)	74	0.5
Population by Race, excluding Hispanics	15,171	100.0
White, not Hispanic	15,059	99.3
Black, not Hispanic	18	0.1
Nat Amer and Asian/Pac Isl, not Hispan (4)	72	0.5
Remaining Races, not Hispanic (3)	22	0.1
Population by Origin, including all races	15,319	100.0
Hispanic	148	1.0
Mexican	116	0.8
Puerto Rican	14	0.1
Cuban	-	-
Other Hispanic	18	0.1
Hispanic by Race	148	100.0
White	95	64.2
Black	-	-
Native American, and Asian/Pac Isl (4)	1	0.7
Remaining Races (3)	52	35.1
Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	11,838	100.0
Married, including Separated	8,099	68.4
Never-Married	2,162	18.2
Divorced and Widowed	1,587	13.4
Housing Characteristics		
Universe: Housing Units	Number	Percent
Total Housing Units (2)	6,152	-
Total Year-Round Housing Units	5,997	100.0
Condominium Units	-	-
No Complete Plumbing for excl use (13)	150	2.5
Occupied Housing Units (1)	5,600	93.4
Median Persons per Unit (7)	2	-
Homeowner Vacancy Rate	1.7	-
Rental Vacancy Rate	10.2	-

Population, Household, Housing Characteristics Report 1a:Part II 1980 Census, STF 1 SEEDIS run date 10 Jan 1985 Osage County Kansas Lawrence Bekeley Laboratory					
Population and Household Characteristics					
Universe: Persons	Male	Percent	Female	Percent	
Population by Age/Sex	7,561	100.0	7,768	100.0	
0-4 Years	579	7.7	549	7.1	
5-13 Years	1,106	14.6	1,006	13.0	
14-15 Years	269	3.6	251	3.2	
16 Years and Over	5,597	74	5,962	77	
16-17 Years	321	4.3	262	3.4	
18-19 Years	251	3.3	237	3.1	
20-21 Years	206	2.7	186	2.4	
22-24 Years	338	4.5	344	4.4	
25-34 Years	1,064	14.1	1,077	13.9	
35-44 Years	830	11.0	830	10.7	
45-54 Years	789	10.4	762	9.8	
55-64 Years	732	9.7	789	10.2	
65-74 Years	630	8.3	741	9.5	
75 Years and Over	436	5.8	734	9.4	
Median Age in Years	31.7		34.7		
Universe: Households		Number	Percent		
Total Households (1)		5,600	100.0		
1 Person Household		1,251	22.3		
Male Householder		437	7.8		
Female Householder		814	14.5		
2 or More Person Household		4,349	77.7		
Married-couple Family		3,927	70.1		
Other Family		345	6.2		
Male Householder, no Wife Present		82	1.5		
Female Householder, no Husband Present		263	4.7		
Nonfamily Households		77	1.4		
Male Householder		58	1.0		
Female Householder		19	0.3		
Total Households w/ Persons Age 65+ (7)		1,693	100.0		
1 Person Household		768	45.4		
2 or More Person Household		925	54.6		
Total Households w/ Persons Under Age 18		2,238	100.0		
Married-Couple Family		2,005	89.6		
Other Family		225	10.1		
Male Householder, no Wife Present		41	1.8		
Female Householder, no Husband Present		184	8.2		
Nonfamily Households		8	0.4		
Housing Characteristics					
Universe: Occupied Housing Units		Number	Percent		
Occupied Housing Units		5,600	100.0		
With 1.01 or more Persons per Room		131	2.3		
Owner Occupied		4,581	82.0		
Lack Complete Plumbing for excl use (13)		78	1.4		
Median Value in Dollars (11)		31300.0			
Renter Occupied		1,009	18.0		
Lack Complete Plumbing for excl use (13)		23	0.4		
Median Contract Rent in Dollars (13)		115.0			

1980 Census STF1  
 SEEDIS Run on 10 Jan 1985  
 Lawrence Berkeley Laboratory

Report 1A. Population  
 and Housing Part 1  
 Shawnee County  
 Kansas

## Population by Race, Origin, Marital Status

Universe: Persons	Number	Percent
Population by Race, including Hispanics	154,916	100.0
White	137,423	88.7
Black	11,842	7.6
Native American	1,410	0.9
American Indian	1,403	0.9
Eskimo	5	-
Aleut	2	-
Asian and Pacific Islander (4)	715	0.5
Japanese	84	0.1
Chinese	144	0.1
Filipino	92	0.1
Korean	85	0.1
Asian Indian	155	0.1
Vietnamese	123	0.1
Hawaiian	18	-
Guamanian	8	-
Samoan	6	-
Remaining Races (3)	3,526	2.3
Population by Race, excluding Hispanics	148,766	100.0
White, not Hispanic	134,798	90.6
Black, not Hispanic	11,659	7.8
Nat Amer and Asian/Pac Isl, not Hisp (4)	1,937	1.3
Remaining Races, not Hispanic (3)	372	0.3
Population by Origin, including all races	154,916	100.0
Hispanic	6,150	4.0
Mexican	5,281	3.4
Puerto Rican	212	0.1
Cuban	54	-
Other Hispanic	803	0.4
Hispanic by Race	6,150	100.0
White	2,625	42.7
Black	183	3.0
Native American, and Asian/Pac Isl (4)	188	3.1
Remaining Races (3)	3,154	51.3
Universe: Persons 15 Years and Over	Number	Percent
Population by Marital Status	120,872	100.0
Married, including Separated	72,589	60.0
Never-Married	28,966	24.0
Divorced and Widowed	19,337	16.0

## Housing Characteristics

Universe: Housing Units	Number	Percent
Total Housing Units (2)	64,446	
Total Year-Round Housing Units	64,393	100.0
Condominium Units	1,239	1.9
Lack Complete Plumbing for exclusive (13)	897	1.4
Occupied Housing Units (1)	58,832	91.4
Median Persons per Unit (7)	2	
Homeowner Vacancy Rate	3.4	
Rental Vacancy Rate	11.8	

Population, Household, Housing Characteristics Report 1a:Part II 1980 Census, STF 1 SEEDIS run date 10 Jan 1985 Lawrence Berkeley Laboratory					
Population and Household Characteristics					
Universe: Persons	Male	Percent	Female	Percent	
Population by Age/Sex	74,805	100.0	80,111	100.0	
0-4 Years	6,000	8.0	5,437	6.8	
5-13 Years	10,418	13.9	9,792	12.2	
14-15 Years	2,702	3.6	2,388	3.0	
16 Years and Over	55,685	74	62,484	78	
18-17 Years	2,918	3.9	2,786	3.5	
18-19 Years	2,585	3.5	2,711	3.4	
20-21 Years	2,680	3.6	2,884	3.6	
22-24 Years	4,400	5.9	4,740	5.9	
25-34 Years	13,003	17.4	13,489	16.8	
35-44 Years	8,217	11.0	8,683	10.8	
45-54 Years	7,950	10.6	8,228	10.3	
55-64 Years	6,958	9.3	7,430	9.3	
65-74 Years	4,247	5.7	6,075	7.6	
75 Years and Over	2,727	3.6	5,480	6.8	
Median Age in Years	29.1		31.6		
Universe: Households		Number	Percent		
Total Households (1)	58,832	100.0			
1 Person Household	15,107	25.7			
Male Householder	5,513	9.4			
Female Householder	9,584	16.3			
2 or More Person Household	43,725	74.3			
Married-couple Family	34,859	59.3			
Other Family	8,445	11.0			
Male Householder, no Wife Present	1,086	1.8			
Female Householder, no Husband Present	5,359	9.1			
Nonfamily Households	2,421	4.1			
Male Householder	1,368	2.3			
Female Householder	1,053	1.8			
Total Households w/ Persons Age 65+ (7)	12,741	100.0			
1 Person Household	5,588	43.9			
2 or More Person Household	7,153	56.1			
Total Households w/ Persons Under Age 18	22,228	100.0			
Married-Couple Family	17,610	79.2			
Other Family	4,409	19.8			
Male Householder, no Wife Present	551	2.5			
Female Householder, no Husband Present	3,858	17.4			
Nonfamily Households	209	0.9			
Housing Characteristics					
Universe: Occupied Housing Units		Number	Percent		
Occupied Housing Units	58,832	100.0			
With 1.01 or more Persons per Room	1,180	2.0			
Owner Occupied	39,753	67.8			
Lack Complete Plumbing for exclusive use (13)	155	0.3			
Median Value in Dollars (11)	44100.0				
Renter Occupied	19,079	32.4			
Lack Complete Plumbing for exclusive use (13)	422	0.7			
Median Contract Rent in Dollars (13)	180.0				

Jefferson

## 2.4. Employment and Training Indicators at the National, Labour Force, and Income Characteristics

Labor Force, Industry and Occupation									
Unemployed					Not in Labor Force				
Number	Pct	Number	Pct	Number	Pct	Rate	Number	Pct	Pct
Population, Persons 16+ by Race, Incl. Hisp		15,291,188.0					305,188.0	4.4	4,371,188.0
Total	14.943	94.3					303,199.3	4.4	4,321,188.0
White	507	8.4	Total, Incl. Hisp	6,447,188.0	6.555	98.6	303,199.3	4.4	4,321,188.0
Black	1441	2.9	White	6,241	8.4		303,199.3	4.4	4,321,188.0
National American	311	0.2	Black	6,241	8.4		303,199.3	4.4	4,321,188.0
Asian and Pacific Islander	75	0.2	Native American	36	0.5		2	0.7	5.3
Remaining Races	185	0.7	Asian/Pac Isi (4)	...	...		...	...	5.8
Hispanic, all races	1111	8.7	Remaining Racels	...	...		...	...	1.1
Foreign Born	1	0.0	Hisp. all races	431	8.6		4	1.3	8.5
Persons 5 Years and Over Speak English Poorly	14,154	188.0	Universe: Employed Persons 16 Years and Over						
Total	18	0.1	Total, All Industries (42) (53)						
Civilians 16 Years and Over Veteran Vietnam Era Veteran (28)	11,322,188.0	2,898.1	Agriculture, Forestry, Fisheries, Mining						
U: Persons	1	0.0	Construction, Durable and Nondurable Goods						
U: Persons	Male	Pct	Transportation						
U: Persons	Female	Pct	Communications and Other Public Utilities						
Total	7,564,188.0	7,643,188.0	Wholesale Trade						
14-15 Years	284	3.8	Retail Trade						
16 Years +	5,527	73.1	Finance, Insurance, and Real Estate						
16-21 Years	739	9.8	Service Industries						
22-24 Years	269	3.6	Public Administration						
55 Years +	1,728	22.7	Total, All Occupations (43) (53)						
Labor Force and Education			Executive, Administrative, and Managerial						
U: Persons 16-19 Years		Number	Professional Specialty						
Total	1,083,188.0		Technicians and Related Support Occupations						
Armed Forces	1		Sales						
Civilians Enrolled in School	815	74.6	Administrative Support Occupations, Including Clerical						
Civilians Not Enrolled in Schol	278	25.4	Service Occupations						
Unemployed High Sch. Graduate	121	1.1	Farming, Forestry and Fishing						
Not in Labor Force, HS Grad	481	3.7	Production, Craft and Repair						
Unemployed School Dropout	481	3.7	Machine Operators, Assemblers, and Inspectors						
Not in Sch. Dropout	281	1.8	Transportation and Material Moving						
U: Non-Institutional Persons 16-64		Number	Handlers, Equipment Cleaners, Helpers, and Laborers						
Total With Work Disability(41)	7481,188.0		Total, Incl. Hisp (d)						
In Labor Force	3551	48.5	Total Households (c)						
Not in Labor Force	381	51.5	Under \$5,000						
Prevented from Working	3181	41.9	\$5,000-\$7,499						
Not Prevented from Working	711	9.6	\$7,500-\$9,999						
U: Persons 25 Years and Over		Number	\$10,000-\$19,999						
Total, by Yrs School Completed	9,316	188.0	\$15,000+						
Elementary (8-8 Years)	1,447	15.5	\$25,000-\$34,999						
Some High School (1-3 Years)	1,258	13.4	\$42,000-\$41,999						
High School Graduate	4,525	48.6	\$50,000 & Over (b)						
Some College (1-3 Years)	1,078	11.6	Median Income						
College Graduate	1,816	18.9	Mean income (b)						

Report of the Committee on the Organization of the Department of Justice

[Page 1]

Report of the Committee on Employment and Training  
Tables Prepared by the Bureau of the Census, and Income Characteristics

U.S. Department of Labor Admin.  
Employment and Training Admin.  
1960 Census, Run on 18 Jan 1965  
Lawrence Berkeley Laboratory

Population

## Appendix A - PROFILE Examples

SEEDIS

Shawnee										
U.S. Census Data, Education, Training, Indicators, and Income Characteristics										
Total Civilian Non-Institutional Labor Force, and Civilian Labor Force by Race and Sex										
Population										
U.S. Total Persons (580,000)										
Population by Race, Total HISP										
White	143,970	24.6	143,870	24.5	143,870	24.5	143,870	24.5	143,870	
Black	116,720	20.2	116,720	20.2	116,720	20.2	116,720	20.2	116,720	
Native American	1,480	1.0	1,480	1.0	1,480	1.0	1,480	1.0	1,480	
Asian and Pacific Islander (4)	743	1.3	743	1.3	743	1.3	743	1.3	743	
Remaining National (8)	1,966	3.4	1,966	3.4	1,966	3.4	1,966	3.4	1,966	
Hispanic, All races	5,694	3.71	5,694	3.71	5,694	3.71	5,694	3.71	5,694	
Foreign Born	2,493	1.6	2,493	1.6	2,493	1.6	2,493	1.6	2,493	
Persons 5 Years and Over	143,566	100.0	143,566	100.0	143,566	100.0	143,566	100.0	143,566	
Speak English Poorly	379	0.3	379	0.3	379	0.3	379	0.3	379	
Citizens 16 Years and Over	118,152	100.0	118,152	100.0	118,152	100.0	118,152	100.0	118,152	
Veteran	22,709	19.3	22,709	19.3	22,709	19.3	22,709	19.3	22,709	
Vietnam Era Veteran	1,381	5.7	1,381	5.7	1,381	5.7	1,381	5.7	1,381	
U.S. Persons	Male		Female		Male		Female		Male	
Total	74,675	100.0	69,211	100.0	74,675	100.0	69,211	100.0	74,675	100.0
14-15 Years	16,612	22.3	15,351	22.9	16,612	22.3	15,351	22.9	16,612	22.3
16 Years	55,729	74.6	51,849	76.0	55,729	74.6	51,849	76.0	55,729	74.6
16-21 Years	8,136	12.9	8,447	12.5	8,136	12.9	8,447	12.5	8,136	12.9
22-24 Years	4,554	6.1	4,581	5.8	4,554	6.1	4,581	5.8	4,554	6.1
55 Years +	13,650	18.5	19,121	23.9	13,650	18.5	19,121	23.9	13,650	18.5
Armed Forces	1,851	1.2	1,851	1.2	1,851	1.2	1,851	1.2	1,851	1.2
Citizens Enrolled in School	7,292	66.4	7,292	66.4	7,292	66.4	7,292	66.4	7,292	66.4
Citizens Not Enrolled in School	3,611	34.8	3,611	34.8	3,611	34.8	3,611	34.8	3,611	34.8
Unemployed High School Graduate	1,155	1.4	1,155	1.4	1,155	1.4	1,155	1.4	1,155	1.4
Not in Labor Force, HS Grad	264	3.3	264	3.3	264	3.3	264	3.3	264	3.3
Unemployed School Dropout	6,717	5.6	6,717	5.6	6,717	5.6	6,717	5.6	6,717	5.6
Not in Labor Force, Dropout	6,151	5.6	6,151	5.6	6,151	5.6	6,151	5.6	6,151	5.6
U.S. NonInstitutional Persons 16-64	Number		Pct		Number		Pct		Number	
Total with Work Disability (41)	2,721	4.7	2,721	4.7	2,721	4.7	2,721	4.7	2,721	4.7
In Labor Force	4,053	52.1	4,053	52.1	4,053	52.1	4,053	52.1	4,053	52.1
Prevented from Working	3,249	41.9	3,249	41.9	3,249	41.9	3,249	41.9	3,249	41.9
9 Persons 25 Years and Over	Number		Pct		Number		Pct		Number	
Total, by Years School Completed	92,533	100.0	92,533	100.0	92,533	100.0	92,533	100.0	92,533	100.0
Elementary (6-8 Years)	9,765	10.6	9,765	10.6	9,765	10.6	9,765	10.6	9,765	10.6
Some High School (11-12 Years)	38,566	41.7	38,566	41.7	38,566	41.7	38,566	41.7	38,566	41.7
High School Graduate	15,462	16.7	15,462	16.7	15,462	16.7	15,462	16.7	15,462	16.7
Some College (13-19 Years)	18,482	19.9	18,482	19.9	18,482	19.9	18,482	19.9	18,482	19.9
College Graduate	Number		Pct		Number		Pct		Number	
Unemployed	3,469	18.0	3,469	18.0	3,469	18.0	3,469	18.0	3,469	18.0
Employed	6,321	41.4	6,321	41.4	6,321	41.4	6,321	41.4	6,321	41.4
Occupation	3,621	18.4	3,621	18.4	3,621	18.4	3,621	18.4	3,621	18.4
Transportation, Durables and Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Construction, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Manufacturing, Durable Goods	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Trade, Hotel and Restaurants	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Trade, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Manufacturing, Durable Goods	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Trade, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Trade, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Manufacturing, Durable Goods	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Trade, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Business Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Health Services	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9	1,467	1.9
Transportation, Non-Durables	1,467	1.9	1,467	1.9	1,467					

## APPENDIX B

### SMALL AREA DATA RETRIEVAL – Census Tracts

**Not Available Pending SEEDIS System Changes**

## **APPENDIX C**

### **County Data Book Dictionary**

!CCNTDB77 COUNTY DATA BOOK DICTIONARY  
CONSOLIDATED FILE  
COUNTY DATA 1947-1977

Database Code F

Geographic Levels STATE, COUNTY, COUNTY80

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U.S. Bureau of the Census  
Washington, DC

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## INTRODUCTION

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The universe for the data this dictionary represents is the entire United States. Items of this file are derived from various sources. The sampling of a particular item reflects the sampling of its source file.

The file is a compendia of data gathered from both governmental and private agencies. Detailed data are provided for the following general areas:

- population
- employment
- vital statistics
- school
- enrollment
- health
- income
- public assistance and social security
- banking
- housing
- government employment and finance
- elections
- crime
- manufacturing
- retail and wholesale trade
- selected services
- mineral
- industries
- farm population
- agriculture and weather

The data from the 1944 book contain information from the 1930 decennial census and the 1939 censuses.

The subject-matter data are provided for individual states, District of Columbia and each county or county equivalent for which data were provided in one of the eight County and City Data Books published since 1947.

WARNING: not all data elements are valid for all counties. Consult the section on Known Errors and Omissions. For further information, consult the printed Census Bureau documentation.

Data Elements	GEOGRAPHIC DESIGNATIONS	
	Description	
!FIPS.STATE	FIPS State Code	
!FIPS.COUNTY	FIPS County Code	
!AREANAME	County Name	

Population	
!CCDBC0012	1940
!CCDBC0013	1950
!CCDBC0014	1960
!CCDBC0015	1970
!CCDBC0016	1970
!CCDBC0017	1972
!CCDBC0018	1975
Population Rank	
!CCDBC0006	1950
!CCDBC0007	1960
!CCDBC0008	1960
!CCDBC0009	1970
!CCDBC0010	1975
Population Rank in Percentile	
!CCDBC0011	1940
Land Area in Square Miles	
!CCDBC0001	1940
!CCDBC0002	1950
!CCDBC0003	1960
!CCDBC0004	1970
!CCDBC0005	1975
Population Per Square Mile	
!CCDBC0019	1940
!CCDBC0020	1950
!CCDBC0021	1960
!CCDBC0022	1970
!CCDBC0023	1975
Population Percent Change	
!CCDBC0024	1930-1940
!CCDBC0025	1940-1950
!CCDBC0026	1950-1960
!CCDBC0027	1960-1970
!CCDBC0028	1970-1975
Net Migration Percent Change	
!CCDBC0029	1950-1960
!CCDBC0030	1960-1970
!CCDBC0031	1970-1975
Migration 1 Year	
!CCDBC0032	1949-1950
Migrants From Different County Percent	
!CCDBC0033	1955-1960
Civilian Population	
!CCDBC0034	1943
Percent Change	
!CCDBC0035	1940-1943
NET Civilian Migration	
!CCDBC0036	1950-1960
Population	
Percent Female	

!CCDBC0037	1970
	Percent Urban
!CCDBC0038	1940
!CCDBC0039	1960
!CCDBC0040	1960
!CCDBC0041	1970
	Rural Farm Population
!CCDBC0042	1940
!CCDBC0043	1945
!CCDBC0044	1950
!CCDBC0045	1970
	Percent Rural Farm Population
!CCDBC0046	1960
	Farm Population Percent Change
!CCDBC0047	1960-1970
	Rural Nonfarm Population
!CCDBC0048	1940
!CCDBC0049	1950
!CCDBC0050	1970
	White Population
!CCDBC0051	1940
!CCDBC0052	1970
	Population Percent Black & Races Other Than White
!CCDBC0053	1950
!CCDBC0054	1960
	Population Percent Black
!CCDBC0055	1960
!CCDBC0056	1970
	Black Population Percent Change
!CCDBC0057	1960-1970
	One Person Households 1000
!CCDBC0072	1970
	Population Percent in Group Quarters
!CCDBC0073	1960
!CCDBC0074	1970
	Institutional Population
!CCDBC0075	1950
	Population Percent Foreign Stock
!CCDBC0076	1960
!CCDBC0077	1970
	Foreign Stock Leading Country of Origin
!CCDBC0078	1970
	01 Austria
	02 Canada
	03 China
	04 Cuba
	05 Czechoslovakia
	06 Denmark
	07 Finland
	08 France

09 Germany  
10 Greece  
11 Hungary  
12 Ireland  
13 Italy  
14 Japan  
15 Lithuania  
16 Mexico  
17 Netherlands  
18 Norway  
19 Philippines  
20 Poland  
21 Portugal  
22 Romania  
23 Sweden  
24 Switzerland  
25 United Kingdom  
26 USSR  
27 Yugoslavia

Population Percent Foreign Born

1960

Native of Foreign or Mixed Parentage PCT

1960

Persons of Spanish Heritage Percent

1970

!CCDBC0079

!CCDBC0080

!CCDBC0081

Births		
!CCDBC0082		1944
!CCDBC0083		1964
!CCDBC0084		1975
Live Births		
!CCDBC0085		1948
!CCDBC0086		1950
!CCDBC0087		1954
!CCDBC0088		1960
Birth Rate Per Thousand Population		
!CCDBC0089		1968
!CCDBC0090		1975
!CCDBC0091		1970
Deaths		
!CCDBC0092		1944
!CCDBC0093		1948
!CCDBC0094		1950
!CCDBC0095		1954
!CCDBC0096		1959
!CCDBC0097		1964
!CCDBC0098		1975
Infant Deaths		
!CCDBC0099		1948
!CCDBC0100		1950
Death Rate Per Thousand Population		
!CCDBC0101		1969
!CCDBC0102		1975
!CCDBC0103		1970
Natural Increase Percent Change		
!CCDBC0104		1950
!CCDBC0105		1960
!CCDBC0106		1970
Marriages		
!CCDBC0107		1948
!CCDBC0108		1950
!CCDBC0109		1954
!CCDBC0110		1960
!CCDBC0111		1964
!CCDBC0112		1975
Marriage Rate Per Thousand Population		
!CCDBC0113		1975
!CCDBC0114		1970
Divorces		
!CCDBC0115		1975
Divorce Rate Per Thousand Population		
!CCDBC0116		1975
!CCDBC0117		1970

County Data Book VITAL STATISTICS, FAMILY  
Data Elements Description Year

Page C-7

Families		
!CCDBC0227		1950
!CCDBC0228		1960
!CCDBC0229		1970
	Families Percent With Female Head	
!CCDBC0230		1970

	Count of Persons	
!CCDBC0058	....Under 5 Years	
		1950
!CCDBC0063	....65 Years and Over	
		1950
	Persons, Percent	
	....Under 5 Years	
!CCDBC0059		1960
!CCDBC0060		1970
!CCDBC0061	....18 Years and Over	
		1970
!CCDBC0062	....21 Years and Over	
		1960
	....65 Years and Over	
!CCDBC0064		1950
!CCDBC0065		1960
!CCDBC0066		1970
!CCDBC0067		1975
	Median Age Years	
!CCDBC0068		1950
!CCDBC0069		1960
!CCDBC0070		1970
!CCDBC0071	Citizens 21 Years and Over	
		195

	Families, Percent With Income	
!CCDBC0231	.....Less Than \$2000	1950
	.....\$5000 Or More	1950
!CCDBC0232	.....Less Than \$3000	1950
!CCDBC0233		1960
!CCDBC0234		1970
!CCDBC0235	.....\$10000 And Over	1960
!CCDBC0236	.....\$3000-4999	1970
!CCDBC0237	.....\$5000-6999	1970
!CCDBC0238	.....\$10000-14999	1970
!CCDBC0239	.....\$15000 And Over	1970
!CCDBC0240	.....\$15000-24999	1970
!CCDBC0241	.....\$25000 Or More	1970
!CCDBC0242	Median Family Income \$	
!CCDRC0243		1950
!CCDBC0244		1960
!CCDBC0245		1970
!CCDBC0246	Rank	1969
!CCDBC0247	White \$	1969
!CCDBC0248	Black \$	1969
!CCDBC0249	Farm Population Median Family Income \$	1969
!CCDBC0250	Families Percent Below Poverty Level	1969
!CCDBC0251	125 Percent of Poverty Level	1969
!CCDBC0252	Persons Below Poverty Level	1969
!CCDBC0253	Percent With Related Children Under 18	1969
!CCDBC0254	Percent 65 Years & Over	1969
	Farm Population Persons Below Poverty Level	1969

County Data Book      INCOME  
Data Elements      Description      Year

Page C-10

!CCDBC0255	Aggregate Income	Million Dollars
		1959
!CCDBC0256	Per Capita Money	Income \$
		1969
		1974
!CCDBC0257	Rank	
		1974
!CCDBC0258	Per Capital Money Income	Annual Average Percent Change
		1969
!CCDBC0259		

	OASDHI Recipients	
!CCDBC0260		1971
!CCDBC0261		1976
	OASDHI Payments Per Month \$1000	
!CCDBC0262		1971
!CCDBC0263		1976
	To Retirees Per Month \$M	
!CCDBC0264		1976
	Average Payments To Retirees Per Month \$	
!CCDBC0265		1971
!CCDBC0266		1976
	Public Assistance Recipients	
!CCDBC0267		1964
	Old Age Assistance	
!CCDBC0268		1972
	Aid to Families With Dependent Children	
!CCDBC0269		1972
!CCDBC0270		1976
	.....children	
!CCDBC0271		1976
	Payments for Month \$M	
!CCDBC0272		1972
	Percent Old Age Assistance	
!CCDBC0273		1972
	Aid to Families With Dependent Children \$1000	
!CCDBC0274		1976
	Percent Aid to Families with Dependent Children	
!CCDBC0275		1972
	Aid to Families With Dependent Children (Average/Family) \$	
!CCDBC0276		1972
!CCDBC0277		1976
	Supplemental Security Income Total Recipients	
!CCDBC0278		1976
	Recipients Aged	
!CCDBC0279		1976
	Payments Per Month \$1000	
!CCDBC0280		1976
	Payments Per Month Aged \$1000	
!CCDBC0281		1976

		Year
	Persons 25 Years or More	
!CCDBC0123	1970	
	Percent With 5 Years School Or more	
!CCDBC0124	1940	
	With High School Or more	
!CCDBC0125	1940	
!CCDBC0126	1950	
!CCDBC0127	1960	
!CCDBC0128	1970	
	With 4 Years College Or more	
!CCDBC0129	1970	
	With Less than 5 Years School	
!CCDBC0130	1950	
!CCDBC0131	1960	
!CCDBC0132	1970	
	Median School Years	
!CCDBC0133	1950	
!CCDBC0134	1960	
!CCDBC0135	1970	
	Persons 7-17 Years	
!CCDBC0136	1950	
	Enrolled In School	
!CCDBC0137	1950	
	Percent Enrolled In School	
!CCDBC0138	1950	
	14-17 Years Enrolled In School	
!CCDBC0139	1950	
	14-17 Years Percent Enrolled In School	
!CCDBC0140	1950	
	5-34 Years Enrolled	
!CCDBC0141	1960	
!CCDBC0142	1975	
	Enrolled	
!CCDBC0143	1970	
	5-34 Enrolled In Kindergarten and Elementary	
!CCDBC0144	1960	
!CCDBC0145	1970	
	in High School	
!CCDBC0146	1960	
!CCDBC0147	1970	
	in College	
!CCDBC0148	1960	
!CCDBC0149	1970	
	Black Persons 3-34, Percent	
	Enrolled in Elementary & High School	
!CCDBC0150	1970	
	Persons 3-34, Percent	
	Enrolled in Private Elementary & High School	
!CCDBC0151	1970	

	Description	Year
Vote For President		
!CCDBC0369		1960
!CCDBC0370		1964
!CCDBC0371		1968
!CCDEC0372		1972
!CCDBC0373		1976
Vote For President Percent For Leading Party		
!CCDBC0374		1960
!CCDBC0375		1964
!CCDBC0376		1968
!CCDBC0377		1972
!CCDBC0378		1976
Vote For President Leading Party		
!CCDBC0379		1960
	1 Democrat	
	2 Republican	
Vote For President Leading Party		
!CCDBC0380		1964
	1 Democrat	
	2 Republican	
Vote For President Leading Party		
!CCDBC0381		1968
	1 American Independence	
	2 Democrat	
	3 Republican	
Vote For President Leading Party		
!CCDBC0382		1972
	1 Democrat	
	2 Republican	
Vote For President Leading Party		
!CCDBC0383		1976
	1 Democrat	
	2 Republican	
Citizens Of Voting Age 1000		
!CCDBC0384		1972
Persons Voting Percent		
!CCDBC0385		1972

County Data Book Data Elements	MEDICAL Description	Year
	Physicians	
!CCDBC0118		1975
	Rate Per 100000 Population	
!CCDBC0119		1975
	Hospitals	
!CCDBC0120		1975
	Hospital Beds	
!CCDBC0121		1975
	Rate Per 100000 Population	
!CCDBC0122		1975

County Data Book CRIME AND POLICE  
Data Elements Description Year

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!CCDBC0437 Crime Rate Per 100000 Population  
1975

Serious Crimes Known to Police  
!CCDBC0438 robbery 1975  
!CCDBC0439 agr assault 1975  
!CCDBC0440 burglary 1975  
!CCDBC0441 vehicle theft 1975  
!CCDBC0436 total 1975

Police Officers  
!CCDBC0442 1975

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DEMOGRAPHIC INFORMATION SYSTEM (SEEDIS) (U) CALIFORNIA  
UNIV BERKELEY LAWRENCE BERKELEY LAB F C GEY JAN 86

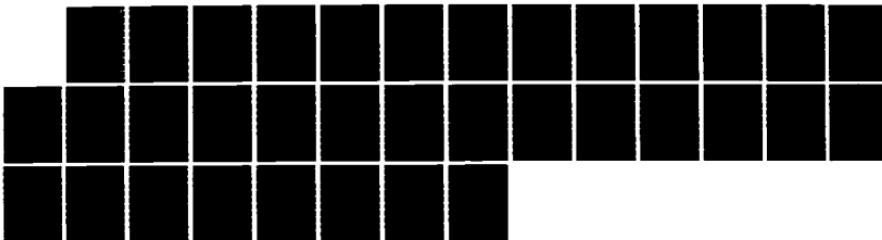
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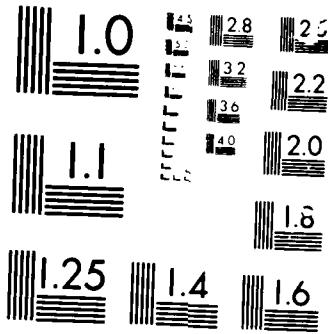
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MICROTEST

	Population 14 Years and over	
!CCDBC0152	1940	
!CCDBC0153	1950	
	Labor Force. 14 Years and over	
!CCDBC0154	1940	
!CCDBC0155	1970 ?????	
	Males 14 Years and over Percent in Labor Force	
!CCDBC0156	1940	
!CCDBC0157	1950	
	Females 14 Years and over Percent in Labor Force	
!CCDBC0158	1940	
!CCDBC0159	1950	
	Civilian Labor Force	
!CCDBC0160	1950	
!CCDBC0161	1960	
!CCDBC0162	1970	
	Percent Male	
!CCDBC0163	1960	
	Female	
!CCDBC0164	1970	
	Percent Married, Husband Present	
!CCDBC0165	1970	
	Employed	
!CCDBC0168	1940	
!CCDBC0169	1950	
!CCDBC0170	1960	
!CCDBC0171	1970	
	in Agriculture	
!CCDBC0172	1940	
!CCDBC0173	1950	
!CCDBC0174	1960	
	in Mining	
!CCDBC0175	1940	
!CCDBC0176	1950	
	in Construction	
!CCDBC0177	1940	
!CCDBC0178	1950	
!CCDBC0179	1960	
	percent in Construction	
!CCDBC0180	1970	
	in Manufacturing	
!CCDBC0181	1940	
!CCDBC0182	1950	
	percent in Manufacturing	
!CCDBC0183	1950	
!CCDBC0184	1960	
!CCDBC0185	1970	
	in Manufacturing Durable Goods	
!CCDBC0186	1960	
	in Manufacturing Nondurable Goods	

County Data Book Data Elements	EMPLOYMENT AND LABOR FORCE Description	Year
!CCDBC0187	1960	
	in Transportation Communications & Public Utility	
!CCDBC0188	1940	
!CCDBC0189	1950	
!CCDBC0190	1960	
	in Wholesale & Retail Trade	
!CCDBC0191	1940	
!CCDBC0192	1950	
!CCDBC0193	1960	
!CCDBC0194	1970	
	in Finance, Insurance, Real Estate	
!CCDBC0195	1950	
!CCDBC0196	1960	
	in Business and Personal Services Except Domestic	
!CCDBC0197	1940	
!CCDBC0198	1950	
	in Professional & Related Services	
!CCDBC0199	1950	
	percent In Services	
!CCDBC0200	1970	
	percent In Government	
!CCDBC0201	1970	
	in Educational Services	
!CCDBC0202	1960	
	percent In Educational Services	
!CCDBC0203	1970	
	in Public Administration	
!CCDBC0204	1960	
	in Other Occupations	
!CCDBC0205	1940	
	percent In White Collar Occupations	
!CCDBC0206	1960	
	percent In Professional & Managerial Occupations	
!CCDBC0207	1970	
	in Sales and Clerical Occupations	
!CCDBC0208	1970	
	as Craftsmen & Foremen	
!CCDBC0209	1970	

#### Journey to Work

##### Workers Percent Used Public Transportation To Work

!CCDBC0210	1960
!CCDBC0211	1970

##### Worked Out Of County Of Residence

!CCDBC0212	1960
!CCDBC0213	1970

	Local Government Employment October Fulltime Equivalent	
!CCDBC0427		1962
!CCDBC0428		1967
!CCDBC0429		1972
	Payroll October \$1000	
!CCDBC0430		1962
	October Million Dollars	
!CCDBC0431		1967
!CCDBC0432		1972
	Federal Government Employment December	
!CCDBC0433		1965
!CCDBC0434		1967
!CCDBC0435		1975

County Data Book SOCIAL SECURITY COVERAGE  
Data Elements Description Year  
-----

Reporting Units With Social Security Coverage  
!CCDBC0214 1953  
!CCDBC0215 1957  
!CCDBC0216 1964  
Employees With Social Security Coverage Mid-March  
!CCDBC0217 1953  
!CCDBC0218 1959  
!CCDBC0219 1964  
!CCDBC0220 1975  
Employees In Manufacturing  
Percent With Social Security Coverage  
!CCDBC0221 1975  
Employees in Wholesale and Retail Trade  
Percent With Social Security Coverage  
!CCDBC0222 1975  
OASI Taxable Payrolls Jan. -March \$1000  
!CCDBC0223 1953  
!CCDBC0224 1959  
!CCDBC0225 1964  
Payroll Social Security Coverage Annual Million Dollars  
!CCDBC0226 1975  
unemployment (percent of civilian labor force)  
Civilian Labor Force, Percent Unemployed  
!CCDBC0166 1960  
!CCDBC0167 1970

	Residential Structures	
!CCDBC0282		1940
	Housing Units	
!CCDBC0283		1940
!CCDBC0284		1950
!CCDBC0285		1960
!CCDBC0286		1970
	Percent Change	
!CCDBC0287		1960-1970
	Median Rooms Per Unit	
!CCDBC0288		1950
!CCDBC0289		1960
!CCDBC0290		1970
	Percent in Detached Structures	
!CCDBC0291		1950
!CCDBC0292		1960
!CCDBC0293		1970
	Percent in 5 or More Unit Structures	
!CCDBC0294		1940
	Percent in Structures Built since Previous Census	
!CCDBC0295		1950
!CCDBC0296		1960
!CCDBC0297		1970
	Housing units Built Since 2nd Previous Census	
!CCDBC0298		1970
	Percent With Private Bath or Shower	
!CCDBC0299		1940
	With Hot Water, Private Toilet, Bath Not Dilapidated	
!CCDBC0300		1950
	Sound with all Plumbing Facilities	
!CCDBC0301		1960
	with Electric Lighting	
!CCDBC0302		1940
	Index of Home Equipment	
!CCDBC0303		1960
	Occupied Units	
!CCDBC0304		1940
!CCDBC0305		1950
!CCDBC0306		1960
!CCDBC0307		1970
	Percent Lacking Some or all Plumbing	
!CCDBC0308		1970
	Percent with 1.01 or More Persons/Room	
!CCDBC0309		1960
!CCDBC0310		1970
	Percent With 1.01 Or more Persons/Room all Plumbing Facilities	
!CCDBC0311		1970
	Percent Moved in 2 Years Or less Before Census	

!CCDBC0312	1960
	Percent Moved in 5 Years Or less Before Census
!CCDBC0313	1970
	Percent with Mechanical Refrigerator
!CCDBC0314	1940
!CCDBC0315	1950
	with Central Heating
!CCDBC0316	1950
	with Radio
!CCDBC0317	1950
	Median Persons per unit
!CCDBC0318	1940
!CCDBC0319	1950
	Mean Persons per unit
!CCDBC0320	1960
!CCDBC0321	1970
	Occupied Units (Continued)
	Percent Black & Races Other than White
!CCDBC0322	1950
	Percent With Clothes Washing Machine
!CCDBC0323	1960
	Percent With Home Food Freezer
!CCDBC0324	1960
!CCDBC0325	1970
	Percent With Air Conditioning
!CCDBC0326	1960
!CCDBC0327	1970
	Percent With TV
!CCDBC0328	1960
	Percent With Telephone
!CCDBC0329	1960
!CCDBC0330	1970
	Residence Telephones
!CCDBC0331	1945
!CCDBC0332	1955
	Business Telephones
!CCDBC0333	1955
	Occupied Units (Continued)
	Percent With One or More Autos
!CCDBC0334	1970
	One Auto
!CCDBC0335	1960
	Two or More Autos
!CCDBC0336	1960
	Black
!CCDBC0337	1970
	Black Owner Occupied,
	Percent Lacking Some or All Plumbing
!CCDBC0338	1970
	Occupied units Black,

Percent With 1.01+ Persons Per Room  
 !CCDBC0339 1970

Owner Occupied Units  
 !CCDBC0340 1960

Occupied Units, Percent Owner Occupied  
 !CCDBC0341 1940  
 !CCDBC0342 1950  
 !CCDBC0343 1960  
 !CCDBC0344 1970

Owner Occupied units, Single Family Median Value \$  
 !CCDBC0345 1960  
 !CCDBC0346 1970

Black Occupied Units, Percent Owner Occupied  
 !CCDBC0347 1970

Renter Occupied Units  
 !CCDBC0348 1960

Median Gross Rent \$  
 !CCDBC0349 1960  
 !CCDBC0350 1970

Vacant Units Year Round Available  
 !CCDBC0351 1950  
 !CCDBC0352 1960

Vacant Unit(s) Year Round Available For Rent Percent  
 !CCDBC0353 1960

Vacancy Rate Owner Units Percent  
 !CCDBC0354 1970

Renter Units Percent  
 !CCDBC0355 1970

Nonfarm Housing Units  
 !CCDBC0356 1940  
 !CCDBC0357 1950

Median Value Single Unit Owner-Occupied units \$  
 !CCDBC0358 1950

Median Contract Rent \$ (Renter-occupied)  
 !CCDBC0359 1940  
 !CCDBC0360 1950

Gross Rent \$  
 !CCDBC0361 1950

Rural Farm Housing Units  
 !CCDBC0362 1940

Percent With Running Water  
 !CCDBC0363 1940

Percent With Elec. Lighting  
 !CCDBC0364 1940

New Private Units Authorized By Permit 2 Years  
 !CCDBC0365 1975

Percent In 1 Unit(s) Structures

County Data Book HOUSING: UNITS, OCCUPANCY, VALUE  
Data Elements Description Year

!CCDBC0366		1975
	Percent In 5 Or more Unit(s) Structures	
!CCDBC0367		1975
	Permit Value \$1000	
!CCDBC0368		1975

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	Auto Registrations Number of Cars	
!CCDBC0613	1947	
	New Auto Sales Number of Cars	
!CCDBC0614	1947	
	Retail Trade Establishments	
!CCDBC0615	1939	
!CCDBC0616	1948	
!CCDBC0617	1948	
!CCDBC0618	1954	
!CCDBC0619	1958	
!CCDBC0620	1967	
!CCDBC0621	1972	
	....With Payroll	
!CCDBC0622	1954	
!CCDBC0623	1958	
!CCDBC0624	1963	
!CCDBC0625	1963	
	....Percent With Payroll	
!CCDBC0626	1967	
!CCDBC0627	1972	
	....Operated by Unincorporated Business	
!CCDBC0628	1939	
!CCDBC0629	1948	
!CCDBC0630	1954	
!CCDBC0631	1958	
!CCDBC0632	1963	
!CCDBC0633	1967	
!CCDBC0634	1972	
	....Sales \$1000	
!CCDBC0635	1939	
!CCDBC0636	1948	
!CCDBC0637	1954	
!CCDBC0638	1958	
!CCDBC0639	1963	
!CCDBC0640	1967	
!CCDBC0641	1972	
	....Sales Percent Change	
!CCDBC0642	1963	
!CCDBC0643	1967	
	....With Payroll Sales \$1000	
!CCDBC0644	1958	
	....Sales, Percent With Payroll	
!CCDBC0645	1967	
!CCDBC0646	1972	
	....Sales, Food Stores \$1000	
!CCDBC0647	1948	
!CCDBC0648	1954	
!CCDBC0649	1958	
!CCDBC0650	1963	
	....Sales, Percent Food Stores	

!CCDBC0651		1967
!CCDBC0652		1972
	.....Sales, Automotive \$1000	
!CCDBC0653		1954
!CCDBC0654		1958
!CCDBC0655		1963
	.....Sales, Percent Automotive	
!CCDBC0656		1967
!CCDBC0657		1972
	.....Sales, General Merchandise \$1000	
!CCDBC0658		1954
!CCDBC0659		1958
!CCDBC0660		1963
	.....Sales, Percent General Merchandise	
!CCDBC0661		1967
!CCDBC0662		1972
	.....Sales, Eating & Drinking \$1000	
!CCDBC0663		1948
!CCDBC0664		1954
	.....Sales, Percent Eating & Drinking	
!CCDBC0665		1967
!CCDBC0666		1972
	.....Sales, Gas Stations \$1000	
!CCDBC0667		1948
!CCDBC0668		1954
	.....Sales, Percent Gas Stations	
!CCDBC0669		1967
!CCDBC0670		1972
	.....Sales, Home Furnishings \$1000	
!CCDBC0671		1954
	.....Sales, Percent Home Furnishings	
!CCDBC0672		1967
!CCDBC0673		1972
	.....Sales, Building Materials \$1000	
!CCDBC0674		1954
	.....Sales, Percent Building Materials	
!CCDBC0675		1967
!CCDBC0676		1972
	.....Sales, Apparel \$1000	
!CCDBC0677		1948
!CCDBC0678		1954
	.....Sales, Percent Apparel	
!CCDBC0679		1967
!CCDBC0680		1972
	.....Sales, Percent Drug Stores	
!CCDBC0681		1967
!CCDBC0682		1972

Establishments by Type		
.....Food		
!CCDBC0683		1948
!CCDBC0684		1954
!CCDBC0685		1958
!CCDBC0686		1963
!CCDBC0687		1972
.....Automotive		
!CCDBC0688		1954
!CCDBC0689		1958
!CCDBC0690		1963
!CCDBC0691		1972
.....General Merchandise		
!CCDBC0692		1954
!CCDBC0693		1958
!CCDBC0694		1963
!CCDBC0695		1972
.....Eating & Drinking		
!CCDBC0696		1948
!CCDBC0697		1954
!CCDBC0698		1972
.....Gas Stations		
!CCDBC0699		1954
!CCDBC0700		1972
.....Home Furnishings		
!CCDBC0701		1954
!CCDBC0702		1972
.....Building Materials-Hardware		
!CCDBC0703		1954
.....Apparel		
!CCDBC0704		1948
!CCDBC0705		1954

RETAIL TRADE - PAYROLL & EMPLOYMENT

.....Payroll \$1000  
!CCDBC0706 1939  
!CCDBC0707 1954  
!CCDBC0708 1958  
!CCDBC0709 1963  
!CCDBC0710 1967  
!CCDBC0711 1972

.....Paid Employees

!CCDBC0712 1939  
!CCDBC0713 1948  
!CCDBC0714 1954  
!CCDBC0715 1958  
!CCDBC0716 1963  
!CCDBC0717 1967  
!CCDBC0718 1972

County Data Book PERSONAL BUSINESS AND REPAIR SERVICES Page 0-28  
Data Elements Description Year

	Service Establishments Receipts
	Personal Business & Repair \$1000
!CCDBC0748	1948
	.....Receipts Personal \$1000
!CCDBC0749	1954
	.....Personal Business Repair
!CCDBC0725	1948
	.....Personal
!CCDBC0726	1954
	.....Paid Employees, Personal Business Repair
!CCDBC0768	1948
	.....Active Proprietors, Personal Business Repair
!CCDBC0774	1948

County Data Book BUSINESS AND INDUSTRIES: SELECTED SERVICES Page C-29  
 Data Elements Description Year

Selected Services Establishments		
!CCDBC0719		1939
!CCDBC0720		1954
!CCDBC0721		1958
!CCDBC0722		1963
!CCDBC0723		1967
!CCDBC0724		1972
	.....Receipts \$1000	
!CCDBC0734		1939
!CCDBC0735		1954
!CCDBC0736		1958
!CCDBC0737		1963
!CCDBC0738		1967
!CCDBC0739		1972
	.....Receipts Percent Change	
!CCDBC0740		1963
!CCDBC0741		1967
	.....With Payroll Receipts \$1000	
!CCDBC0742		1958
	.....Receipts Percent Establishments With Payroll	
!CCDBC0743		1967
!CCDBC0744		1972
	.....Payroll \$1000	
!CCDBC0756		1939
!CCDBC0757		1954
!CCDBC0758		1958
!CCDBC0759		1963
!CCDBC0760		1967
!CCDBC0761		1972
	.....Paid Employees	
!CCDBC0762		1939
!CCDBC0763		1954
!CCDBC0764		1958
!CCDBC0765		1963
!CCDBC0766		1967
!CCDBC0767		1972
	.....Paid Employees, Amusements	
!CCDBC0770		1948

SERVICE ESTABLISHMENTS BY TYPE		
	Auto Repair	
!CCDBC0727		1954
!CCDBC0728	Tourists Courts & Camps	1948
	Amusements	
!CCDBC0729		1948
	with Payroll	
!CCDBC0730		1958
!CCDBC0731		1963
	Percent With Payroll	
!CCDBC0732		1967
!CCDBC0733		1972
	Receipts	
!CCDBC0745	.....Hotels Motels Camps \$1000	
		1948
	.....Percent Hotels Motels Camps	
!CCDBC0746		1967
!CCDBC0747		1972
	.....Auto Repair \$1000	
!CCDBC0750		1954
	.....Percent Auto Repair	
!CCDBC0751		1967
!CCDBC0752		1972
	.....Amusement \$1000	
!CCDBC0753		1948
	.....Percent Amusement	
!CCDBC0754		1967
!CCDBC0755		1972
	.....Paid Employees Tourist Courts & Camps	
!CCDBC0769		1948
	.....Active Proprietors	
!CCDBC0771		1939
!CCDBC0772		1954
!CCDBC0773		1958

County Data Book BUSINESS AND INDUSTRIES: WHOLESALE TRADEPage C-31  
 Data Elements Description Year

Wholesale Trade Establishments		
!CCDBC0775		1939
!CCDBC0776		1948
!CCDBC0777		1954
!CCDBC0778		1958
!CCDBC0779		1963
!CCDBC0780		1967
!CCDBC0781		1972
	.....Merchant Wholesalers	
!CCDBC0782		1954
!CCDBC0783		1958
!CCDBC0784		1972
	.....Percent Merchant Wholesalers	
		1972
	.....Sales \$000	
!CCDBC0785		1939
!CCDBC0786		1948
!CCDBC0787		1954
!CCDBC0788		1958
!CCDBC0789		1963
	Millions of Dollars	
!CCDBC0790		1967
!CCDBC0791		1972
!CCDBC0792		1967
	.....Percent Change	
		1967
	.....Merchant Wholesalers \$1000	
!CCDBC0793		1954
!CCDBC0794		1958
!CCDBC0795		1963
	.....Percent Merchant Wholesalers	
!CCDBC0796		1967
!CCDBC0797		1972
	.....Paid Employees	
!CCDBC0798		1948
!CCDBC0799		1954
!CCDBC0800		1958
!CCDBC0801		1963
!CCDBC0802		1967
!CCDBC0803		1972
	Payroll \$1000	
!CCDBC0804		1954
!CCDBC0805		1958
!CCDBC0806		1963
!CCDBC0807		1967
!CCDBC0808		1972
	.....Proprietors	
!CCDBC0809		1954

County Data Book BUSINESS AND INDUSTRIES: MINERAL INDUSTRPage C-32  
 Data Elements Description Year

Mineral Industries Establishments		
!CCDBC0810		1958
!CCDBC0811		1963
!CCDBC0812		1967
!CCDBC0813		1972
Employees		
!CCDBC0814		1939
!CCDBC0815		1958
!CCDBC0816		1963
Employees (thousands)		
!CCDBC0817		1967
!CCDBC0818		1972
Employees Percent Change		
!CCDBC0819		1967
Payroll \$1000		
!CCDBC0820		1939
!CCDBC0821		1958
!CCDBC0822		1963
Payroll (millions of dollars)		
!CCDBC0823		1967
!CCDBC0824		1972
Value Shipments & Receipts \$M		
!CCDBC0825		1939
!CCDBC0826		1958
!CCDBC0827		1963
!CCDBC0828		1967
!CCDBC0829		1972
!CCDBC0830		1954
!CCDBC0831		1958
.....Percent Change		
!CCDBC0832		1967
Value Added \$M		
!CCDBC0833		1963
!CCDBC0834		1972
Capital Expenditures \$1000		
!CCDBC0835		1963

Manufacturing Establishments		
!CCDBC0481		1939
!CCDBC0482		1947
!CCDBC0483		1954
!CCDBC0484		1958
!CCDBC0485		1963
!CCDBC0486		1967
!CCDBC0487		1972
!CCDBC0488		1939
!CCDBC0489		1950
	.....With 1-19 Employees	
!CCDBC0490		1947
!CCDBC0491		1950
!CCDBC0492		1954
	.....With 20 or More Employees	
!CCDBC0493		1963
	.....Percent With 20 or More Employees	
!CCDBC0494		1972
	.....With 20-99 Employees	
!CCDBC0495		1954
!CCDBC0496		1958
!CCDBC0497		1963
	.....Percent With 20-99 Employees	
!CCDBC0498		1967
	.....With 20-49 Employees	
!CCDBC0499		1947
!CCDBC0500		1950
	.....With 50-99 Employees	
!CCDBC0501		1947
!CCDBC0502		1950
	.....With 100 Employees or More	
!CCDBC0503		1954
!CCDBC0504		1958
!CCDBC0505		1963
	.....Percent With 100 Employees or More	
!CCDBC0506		1967
!CCDBC0507		1972
	.....With 100-249 Employees	
!CCDBC0508		1947
!CCDBC0509		1950
	.....With 250 Employees or More	
!CCDBC0510		1947
!CCDBC0511		1950
	Employees	
!CCDBC0512		1947
!CCDBC0513		1947
!CCDBC0514		1954
!CCDBC0515		1958
!CCDBC0516		1963
!CCDBC0517		1967

!CCDBC0518	1972
!CCDBC0519	1949
!CCDBC0520	1950
	Employees Percent Change
!CCDBC0521	1967
	Payroll \$1000
!CCDBC0522	1947
!CCDBC0523	1954
!CCDBC0524	1958
!CCDBC0525	1963
	Payroll Million Dollars
!CCDBC0526	1967
!CCDBC0527	1972
	Taxable Payroll \$1000
!CCDBC0528	1949
!CCDBC0529	1950
	Production Workers
!CCDBC0530	1939
!CCDBC0531	1947
!CCDBC0532	1954
!CCDBC0533	1958
!CCDBC0534	1963
!CCDBC0535	1967
!CCDBC0536	1972
	Manufacturing Production Workers Hours Worked \$1000
!CCDBC0537	1958
!CCDBC0538	1963
	Millions
!CCDBC0539	1967
!CCDBC0540	1972
	Manufacturing Production Workers Wages \$1000
!CCDBC0541	1939
!CCDBC0542	1947
!CCDBC0543	1954
!CCDBC0544	1958
!CCDBC0545	1963
	.....Million Dollars
!CCDBC0546	1967
!CCDBC0547	1972
	Manufacturing Establishments Value of Products \$1000
!CCDBC0548	1939
	Value-Added \$1000
!CCDBC0549	1939
!CCDBC0550	1947
!CCDBC0551	1954
!CCDBC0552	1958
!CCDBC0553	1963
	Value-Added Million Dollars
!CCDBC0554	1967
!CCDBC0555	1972

	Added Percent Change	
!CCDBC0556	1963	
!CCDBC0557	1967	
	New Capital Expenditures \$1000	
!CCDBC0558	1954	
!CCDBC0559	1958	
!CCDBC0560	1963	
	\$Mil.	
!CCDBC0561	1967	
!CCDBC0562	1972	
	Number of Establishments	
	With 20 Or More Employees by Type	
	Food & Tobacco	
!CCDBC0563	1963	
	Food	
!CCDBC0564	1947	
!CCDBC0565	1954	
	Tobacco	
!CCDBC0566	1947	
!CCDBC0567	1954	
	Textile-Apparel-Leather	
!CCDBC0568	1963	
	Textile	
!CCDBC0569	1947	
!CCDBC0570	1954	
	Apparel	
!CCDBC0571	1947	
!CCDBC0572	1954	
	Leather	
!CCDBC0573	1947	
!CCDBC0574	1954	
	Paper & Printing	
!CCDBC0575	1963	
	Paper (Excl. Pulp)	
!CCDBC0576	1947	
	Paper (Incl. Pulp)	
!CCDBC0577	1954	
	Printing & Publishing	
!CCDBC0578	1947	
!CCDBC0579	1954	
	Chem. Petro. Rubber and Plastics	
!CCDBC0580	1963	
	Chemicals	
!CCDBC0581	1947	
!CCDBC0582	1954	
	Petroleum	
!CCDBC0583	1947	
!CCDBC0584	1954	
	Rubber	

!CCDBC0585	1947
!CCDBC0586	1954
	Lumber Wood Furniture
!CCDBC0587	1963
	Lumber Excluding Furniture
!CCDBC0588	1947
!CCDBC0589	1954
	Furniture and Fixtures
!CCDBC0590	1947
!CCDBC0591	1954
	Stone Clay and Glass
!CCDBC0592	1947
!CCDBC0593	1954
!CCDBC0594	1963
	Primary & int. Metals
!CCDBC0595	1963
	Primary Metals
!CCDBC0596	1947
!CCDBC0597	1954
	Fabricated Metals
!CCDBC0598	1947
!CCDBC0599	1954
	Electric & Non Electric Machinery
!CCDBC0600	1963
	Machinery Except Electric.
!CCDBC0601	1947
!CCDBC0602	1954
	Electric. Machinery
!CCDBC0603	1947
!CCDBC0604	1954
	Transportation & Ordnance
!CCDBC0605	1963
	Transportation Equipment.
!CCDBC0606	1947
!CCDBC0607	1954
	Instruments & Miscellaneous
!CCDBC0608	1963
	Instruments
!CCDBC0609	1947
!CCDBC0610	1954
	Miscellaneous
!CCDBC0611	1947
!CCDBC0612	1954

County Data Book WAR CONTRACTS  
Data Elements Description Year

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!CCDBC0443	Major War Supply Contracts	Combat Equipment. \$M
	Other \$1000	1940
!CCDBC0444	Facilities Projects	Industrial \$1000
!CCDBC0445	Military	\$1000
!CCDBC0446		1940

Farms	
!CCDBC0836	1940
!CCDBC0837	1945
!CCDBC0838	1950
!CCDBC0839	1954
!CCDBC0840	1959
!CCDBC0841	1964
!CCDBC0842	1969
!CCDBC0843	1974
Farms Percent Change	
!CCDBC0844	1964
!CCDBC0845	1969
Commercial Farms	
!CCDBC0846	1950
!CCDBC0847	1954
!CCDBC0848	1959
!CCDBC0849	1964
With \$2500 or Less Products Sold	
!CCDBC0850	1954
!CCDBC0851	1959
Percent With \$2500 Or less Products Sold	
!CCDBC0852	1964
With \$10000+ Products sold	
!CCDBC0853	1959
Percent With \$10000+ Products Sold	
!CCDBC0854	1964
With \$25000+ Products Sold	
!CCDBC0855	1954
Farms Part Time	
!CCDBC0856	1954
!CCDBC0857	1959
!CCDBC0858	1964
Percent Operated by Tenants	
!CCDBC0859	1940
!CCDBC0860	1945
!CCDBC0861	1950
!CCDBC0862	1954
!CCDBC0863	1959
!CCDBC0864	1964
Land in Farms 1000 Acres	
!CCDBC0865	1945
!CCDBC0866	1950
!CCDBC0867	1954
!CCDBC0868	1959
!CCDBC0869	1964
!CCDBC0870	1969
!CCDBC0871	1974
Percent Change	
!CCDBC0872	1964
!CCDBC0873	1969

Percent in Farms		
!CCDBC0874		1954
!CCDBC0875		1959
!CCDBC0876		1964
!CCDBC0877		1969
!CCDBC0878		1974
	Cropland 1000 Acres	
!CCDBC0879		1974
	Harvested 1000 Acres	
!CCDBC0880		1945
!CCDBC0881		1950
!CCDBC0882		1954
	Commercial Farms 1000 Acres	
!CCDBC0883		1950
	Percent Harvested	
!CCDBC0884		1974
	Value of Farm Property \$1000	
!CCDBC0885		1940
	Average per Farm \$	
!CCDBC0886		1940
	Value of Farm Land & Buildings \$1000	
!CCDBC0887		1945
	Value of Farm Land and Buildings Average per Farm \$	
!CCDBC0888		1945
!CCDBC0889		1950
!CCDBC0890		1954
!CCDBC0891		1959
!CCDBC0892		1964
!CCDBC0893		1969
	Average per farm (thousands of dollars)	
!CCDBC0894		1974
	Average per Commercial Farm \$	
!CCDBC0895		1950
	Value of Farm Land and Buildings Average per Acre \$	
!CCDBC0896		1945
!CCDBC0897		1954
!CCDBC0898		1959
!CCDBC0899		1964
!CCDBC0900		1969
!CCDBC0901		1974
	Average Size of Farms Acres	
!CCDBC0902		1954
!CCDBC0903		1959
!CCDBC0904		1964
!CCDBC0905		1969
!CCDBC0906		1974
	Farms Under 10 Acres	
!CCDBC0907		1954
!CCDBC0908		1959
!CCDBC0909		1964

!CCDBC0910	1969
!CCDBC0911	1974
	180 Acres
!CCDBC0912	1974
	With 1000 Acres or More
!CCDBC0913	1954
!CCDBC0914	1959
!CCDBC0915	1964
!CCDBC0916	1969
!CCDBC0917	1974
	with Sales \$2500 or More
!CCDBC0918	1969
!CCDBC0919	1974
	with Sales \$2500 or More, Percent Operated by Corporation
!CCDBC0920	1969
!CCDBC0921	1974
	Percent with Sales of \$10000-\$39999
!CCDBC0922	1969
!CCDBC0923	1974
	Percent with Sales of \$40000 or More
!CCDBC0924	1969
!CCDBC0925	1974
	with Sales Less Than \$2500
!CCDBC0926	1969
	Part Time Farms Percent With Sales Under \$2500
!CCDBC0927	1969
	Farm Expenditures for Production, Million Dollars
!CCDBC0928	1974
	Livestock & Poultry Feed \$1000
!CCDBC0929	1950
!CCDBC0930	1954
!CCDBC0931	1959
	Hired Labor \$1000
!CCDBC0932	1950
!CCDBC0933	1954
!CCDBC0934	1959
	Hired Labor Million Dollars
!CCDBC0935	1974
	Commercial Fertilizer \$1000
!CCDBC0936	1954
	Commercial Fertilizers Used Tons
!CCDBC0937	1959
	Value of Farm Products Sold \$1000
!CCDBC0938	1950
!CCDBC0939	1954
!CCDBC0940	1959
!CCDBC0941	1964
	Farm Products Sold Average Value per Farm \$
!CCDBC0942	1964

	Value of Crops Sold \$1000	
!CCDBC0943	1950	
!CCDBC0944	1954	
!CCDBC0945	1959	
!CCDBC0946	1964	
	Value of Livestock & Livestock Products Sold \$1000	
!CCDBC0947	1950	
!CCDBC0948	1954	
!CCDBC0949	1959	
!CCDBC0950	1964	
	Dairy Products Sold \$1000	
!CCDBC0951	1950	
!CCDBC0952	1954	
!CCDBC0953	1959	
	Poultry & Poultry Products Sold \$1000	
!CCDBC0954	1950	
!CCDBC0955	1954	
!CCDBC0956	1959	
	Farms With Sales \$2500 or more	
	Value of Products Sold \$000	
!CCDBC0957	1969	
	\$Million	
!CCDBC0958	1974	
	Average Value Products Sold	
!CCDBC0959	1969	
	Value Products Sold Percent Crops	
!CCDBC0960	1969	
!CCDBC0961	1974	
	Value Products Sold Percent Dairy	
!CCDBC0962	1969	
!CCDBC0963	1974	
	Value Products Sold %Livestock plus Products.	
!CCDBC0964	1969	
!CCDBC0965	1974	
	Value Poultry + Products Percent	
!CCDBC0966	1969	
!CCDBC0967	1974	
	Farms Percent With Value of Products Less than \$400	
!CCDBC0968	1940	
	Farms With Value of Products \$1000 or More	
!CCDBC0969	1945	
	Value of Products Sold or Used \$1000	
!CCDBC0970	1945	
	Percent From Sales of Livestock plus Products.	
!CCDBC0971	1945	
	Percent From Sales of Crops	
!CCDBC0972	1945	
	Traded or Used \$1000	
!CCDBC0973	1940	
	Percent From Livestock +Livestock Products	

!CCDBC0974	1940
!CCDBC0975	Percent From crops 1940
!CCDBC0976	Farms With Dwellings With Electricity 1945
!CCDBC0977	Running Water 1945
!CCDBC0978	With Electricity 1950
!CCDBC0979	Percent With Electricity 1954
!CCDBC0980	With Electric. Last Monthly Bill Average \$ 1950
!CCDBC0981	With Telephones 1950
!CCDBC0982	Percent With Telephones 1954
!CCDBC0983	1959
!CCDBC0984	Percent With Trucks 1959
!CCDBC0985	Percent With Tractors 1954
!CCDBC0986	1959
!CCDBC0987	Without Tractors Horses or Mules 1950
!CCDBC0988	Percent With Piped Running Water 1954
!CCDBC0989	With TV 1954
!CCDBC0990	Cattle or Calves of All Ages on Farms 1945
!CCDBC0991	1950
!CCDBC0992	1954
!CCDBC0993	1959
!CCDBC0994	Horses + Mules 3 Months or More on Farms 1940
!CCDBC0995	Hogs & Pigs on Farms 1954
!CCDBC0996	Tractors on Farms 1940
!CCDBC0997	1945
!CCDBC0998	1950
!CCDBC0999	1954
!CCDBC1000	Trucks on Farms 1950
!CCDBC1001	1954
!CCDBC1002	Autos on Farms 1950
!CCDBC1003	1954

County Data Book Data Elements	AGRICULTURE Description	Page 43 Year
	FARM HOUSEHOLDS, LEVEL OF LIVING	
!CCDBC1004	Persons in Farm Operator Household	
	1964	
!CCDBC1005	Farm Operator Household Income From Sources Other Than Farm Operated \$1000	
	1964	
!CCDBC1006	Percent from Employment	
	1964	
!CCDBC1007	Farm Operators Percent Residing on Farm Operated	
	1969	
!CCDBC1008	1974	
	Working 100 Or more Days Off Farm	
!CCDBC1009	1945	
!CCDBC1010	1950	
!CCDBC1011	1964	
	Percent Working 100 or More days off Farm	
!CCDBC1012	1969	
!CCDBC1013	1974	
!CCDBC1014	Principal Source of Farm Income	
	1940	
	0 Farm Products Used by Farm	
	1 Livestock	
	2 Dairy Products	
	3 Poultry and Poultry Products	
	4 Other Livestock	
	5 Field Crops	
	6 Vegetables	
	7 Fruits and Nuts	
	8 Horticultural Specialties	
	9 Forest Products	
!CCDBC1015	Farm Income Percent From Principal Source	
	1940	
!CCDBC1016	Rural Level of Living Index	
	1940	
!CCDBC1017	Farm Operator Family Level of Living Index	
	1945	
!CCDBC1018	1950	
!CCDBC1019	1959	
!CCDBC1020	1940	
!CCDBC1021	1950	
!CCDBC1022	Foreign Stock Percent Lead Country of Origin	
	1970	

	Bank Deposits (thousands of dollars)	
!CCDBC0447		1944
!CCDBC0448		1949
!CCDBC0449		1950
!CCDBC0450		1956
!CCDBC0451		1960
!CCDBC0452		1964
	Bank Deposits (millions of dollars)	
!CCDBC0453		1970
!CCDBC0454		1976
	Percent Change	
!CCDBC0455		1960
	Demand Deposits \$1000	
!CCDBC0456		1960
!CCDBC0457		1964
	Time Deposits \$1000	
!CCDBC0458		1944
!CCDBC0459		1949
!CCDBC0460		1950
!CCDBC0461		1956
!CCDBC0462		1960
!CCDBC0463		1964
	Million Dollars	
!CCDBC0464		1970
!CCDBC0465		1976
	Savings and Loan Associations	
!CCDBC0466		1948
!CCDBC0467		1950
	Savings Capital \$1000	
!CCDBC0468		1948
!CCDBC0469		1950
!CCDBC0470		1960
!CCDBC0471		1964
	Million Dollars	
!CCDBC0472		1970
!CCDBC0473		1976
	Savings and Loan Savings Capital Percent Change	
!CCDBC0474		1960
	First Mortgage Loans \$1000	
!CCDBC0475		1948
!CCDBC0476		1950
!CCDBC0477		1960
	E Bond Sales \$1000	
!CCDBC0478		1944
!CCDBC0479		1949
!CCDBC0480		1950

	Local Government - Revenue	
	Local Government General Revenue \$1000	
!CCDBC0386	1957	
!CCDBC0387	1962	
	Million Dollars	
!CCDBC0388	1967	
!CCDBC0389	1971	
	Intergovernmental Million Dollars	
!CCDBC0390	1971	
	Percent Intergovernmental	
!CCDBC0391	1962	
!CCDBC0392	1967	
	Intergovernmental, percent Federal	
!CCDBC0393	1971	
	Taxes Million Dollars	
!CCDBC0394	1971	
	Taxes Percent of General Revenue	
!CCDBC0395	1962	
!CCDBC0396	1967	
	Property Tax Percent of General Revenue	
!CCDBC0397	1957	
	Per Capita \$	
!CCDBC0398	1962	
!CCDBC0399	1967	
!CCDBC0400	1971	
	Local Government - Expenditures	
	Direct General Expenditures \$1000	
!CCDBC0401	1957	
!CCDBC0402	1962	
	Million Dollars	
!CCDBC0403	1967	
!CCDBC0404	1971	
	Per Capita, Excluding Capital Outlays \$	
!CCDBC0405	1962	
!CCDBC0406	1967	
!CCDBC0407	1971	
	Education \$M	
!CCDBC0408	1962	
	Percent Education	
!CCDBC0409	1957	
!CCDBC0410	1967	
!CCDBC0411	1971	
	Highways \$1000	
!CCDBC0412	1962	
	Percent Highways	
!CCDBC0413	1967	
!CCDBC0414	1971	

	Public Welfare	\$1000
!CCDBC0415		1962
	Percent Public Welfare	
!CCDBC0416		1967
!CCDBC0417		1971
	Health & Hospital	\$1000
!CCDBC0418		1962
	Percent Health & Hospital	
!CCDBC0419		1967
!CCDBC0420		1971
	Police Protection	\$M
!CCDBC0421		1962

Local Government - Indebtedness

	General Debt Outstanding	\$1000
!CCDBC0422		195/
!CCDBC0423		1962
	Million Dollars	
!CCDBC0424		1967
!CCDBC0425		1971
	Per Capita	
!CCDBC0426		1971

### Known Errors and Omissions

This file uses a set of common county codes for all data elements, regardless of the version of the county data book from which they were drawn. For example, for the data element CCDBC0015 (1970 Population from the 1972 county data book), county codes are 1972 FIPS codes. For the data element CCDBC0016 (1970 Population from the 1977 county data book), county codes are 1977 FIPS codes.

Certain counties were redefined between 1972 and 1977. For example, state-county 51153 (Prince William County in Virginia) included Manassas City and Manassas Park City in 1972 but not in 1977. As a result, the data elements CCDBC0015 and CCDBC0016 refer to different geographic areas and are not directly comparable.

Similar inconsistencies exist between all data elements drawn from different editions of the County Data Book, for those counties whose definitions changed in the meantime.

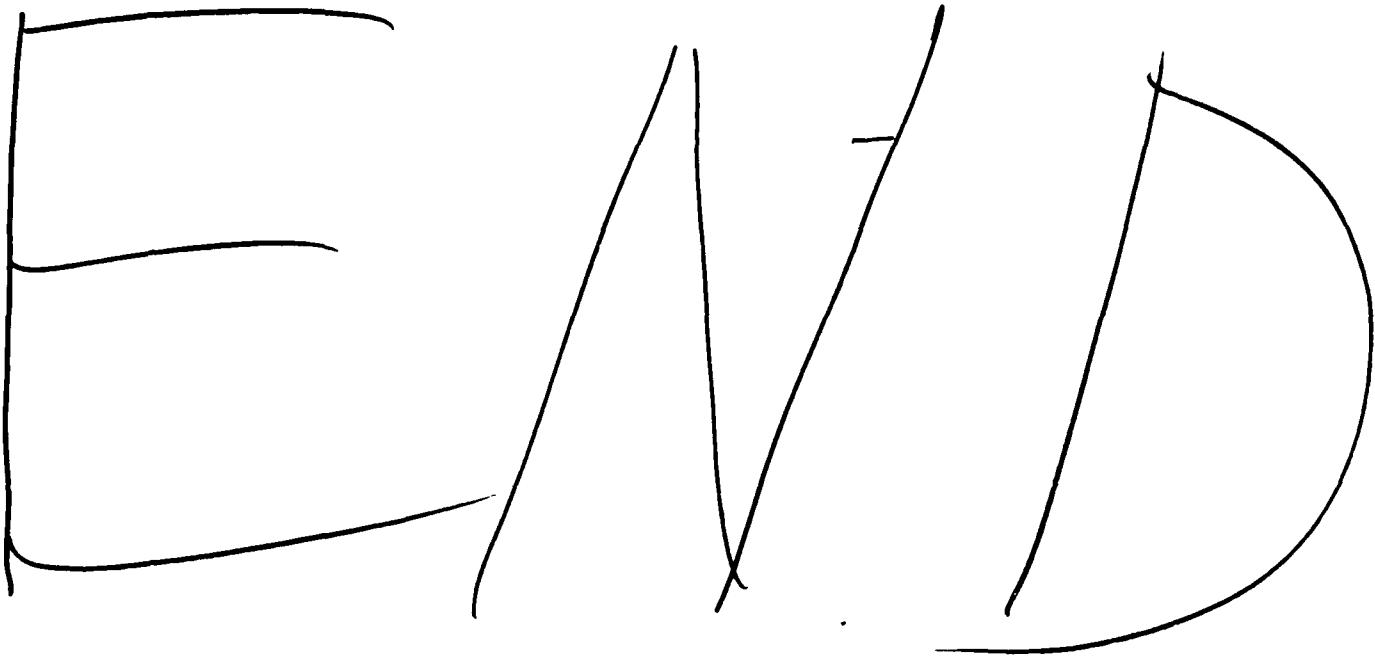
To know which data elements were drawn from which editions of the County Data Book, consult the County Data Book printed documentation. (Fred Gey has a copy at LBL).

To know which counties changed definition between two editions of the County Data Book, consult Census Bureau documentation or old U.S. atlases. A partially validated record of such changes, compiled by Deane Merrill, is in sy\$seedis:[seedis.area]cnty6083.key.

Technical Information  
COUNTY80 level (1980 Census Counties)

In March 1984, Deane Merrill installed these data at the COUNTY80 level (1980 Census Counties) by executing the following command file county80.com:

```
$!disk$seedis001:[seedis.seedata.ccndb77.county80]county80.com
$! install 1977 city county data book at county80 level
$set def disk$seedis001:[seedis.seedata.ccndb77.county80]
$ch # $ >county80x.com
#! county80x.com 'p1'=FIPS.STATE code
#ch <[-.county]s'p1'.ndx >s'p1'.ndx FIPS.COUNTY FIPS.COUNTY80
#! end of county80x.com
$@county80x 01
$@county80x 02
$@county80x 04
  etc
$@county80x 55
$@county80x 56
$rm county80x.com
```



A hand-drawn signature or code consisting of the letters D, T, T, and C. The letters are written in a cursive, fluid style. The 'D' is on the left, followed by two 'T's, and a 'C' on the right. There is a horizontal line above the 'T's.

A hand-drawn number 7 followed by a minus sign and the number 86. The '7' is on the left, followed by a short horizontal line with a minus sign, and then the '86' is on the right. The '8' is a large, stylized oval, and the '6' is a smaller oval.